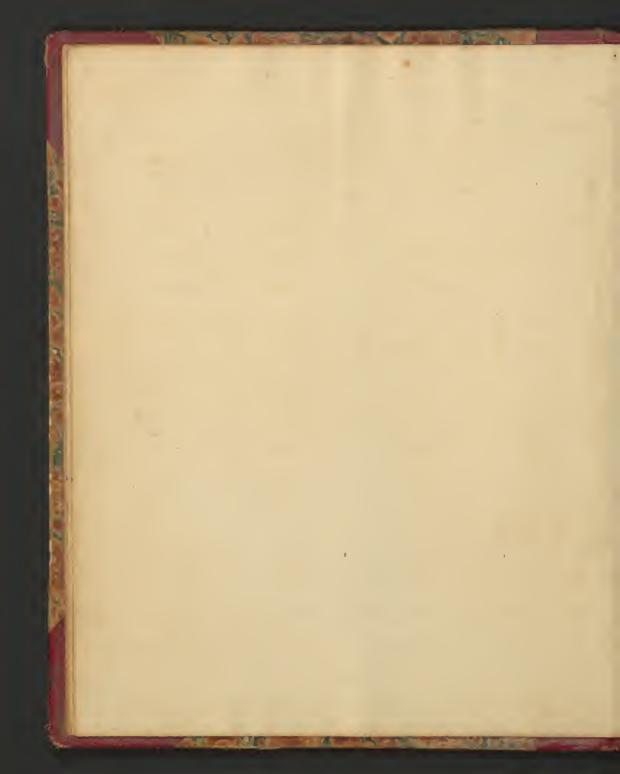




Les volumes contenis roue kt ujste Meth. - Iteres to a Books.

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Notes upon Sectives delivered by J. D. Moved MD at the liollege of Tharmacy Nov. 12th 1833. First Lecture. ---In order that his beclured might be intelligible to both young and old pharmaceutical students, he Commenced with the very comentary principles, of gave us a description of weights and measures. The A pothecary should always buy by the Avoirduping and sell by the Apothecary or Troy Weight, and in The proparations of the Tharmacopracia (u.S.) The. Troy weight is universally used in directions. It may also be priper to note here some other lesnes which are used by physicians in frede i phond of which being very uncertain quantities or doses, Should be abandoned. As for instance a teaspoonful is usually meant for f 3i - a lable sproon for f 3/s. - a wine glass for fing and the old leacup for fing - but it is evident to any one that these measured in our times are by no means exact as to these quantities With this prelimenary thetch we proceed to what

Inderistion by arops is very uncertain, because they vary, from the side of the mouth of the vessel, The liquidde. In Juntered, there are about twice as many arops in a given quantity as in the same quantity of Water .the same super the same super the same to the same super the same in the well to prove the transfer of the e de la companya della companya de la companya della companya dell

more properly belongs to our course and say that all remedies are derived from organice beings and from neweral substances. These latter will come more properly under the department of the chemical lecture, and consequent by we shall consider only the former. Organic beings are those which have life; - and are to called because by the operation of vetality the parts are organized to perform certain offices. These or beings are divided into I sets - begetable and animal, and as most of our remedies are oblained from the former, that merits our attention of isst -It may seem strange to assert that it is defficult to define what we mean by vegetable, but Such is the fact. Some have defined a plant to be a living being boid of locomotion, lut we know that there are animals which would be included under this head, oyster for inst.) - Others have dofined it to be a living being boid of Lendalion.

Proximate Principles of any body are those principles which unite immediately to form that body. These are compound I usually contain the Minute Principles, Carbon; Androgen, buygen & Astrojen?

but we are not sure that all plants are void be included - others have defined it to be a living being receiving nourishment from the exe ternal surface, while animals all receive their nourethment from an intermal Surface or alimentary canal, and to this, it is sound, there is no exception. Mr may safely say thew, that a plant is a living being incapable of locomotion probably, boid of sensation, and receiving its noureshinest from At external s'urface. - It is necessary to become acquainted with what is meant by proximete and ultimate principles To explain thek we will take any substance in Chew istry, Julphute of Sodie for ex. - und was say that Sulp Acid and Soda are the profunate frincefiles, while Sulphur and byggen, and Sodium and byggenare The ultimate frinciples. - In like manner introg. proximate fries - The characteristics of acids use

Def. acids are all orlia; I consist of by. - thy a. and Carbon; - Oxygen being in excell. beg. alkalies - discovered within about 13 yrs .- They desive their names from the plants from which they are derived of end in ice - in Franchine - - They neutrali've acids, but do not change blue to free ordeliqueder. 2. Jugar is another well known proximate formerfix - It is voled, white, inodowns, - on retish tatte, - voluble in an equal everflit of Cold, to an intlefinite extent in hot Water .- Boiling Ale. dissolves Hit weight, but l'éposites it in Chrystals ou cooling. - Mit. con-Stet. are of. - Hyd. I loat. - he The amount of a second of the second of th the secondary to destroy to the a series and and the or, the destination will be a a many part, or that was a fair to bother the will, that first and but loving to concer women them but not

a down taste, turn is getable blued to red, and neutralize alkalies. I carthe, -Oxygen, Hydrogen and Carbon, sometimes untod with a small portion of Actroque are constituent of alkalus, and it is to be remarked that the Ok --· acirt Hy drogen are in exact proportion for forming Noter. - another proximate frinciples is 3. Starcto. - This is, when pure, insipid, modoroug, white, intoluble in Cold Water, Alcohol or Ether leut Solins boiling water, when it appears to undergo a decided change, for if the boiling solution to baporosed to dry ness, we shall find a residures which is voluble in cold Water, Alc. or Ether. Its tests are Sodine, which forms a blue precipitate and, Sub-Acetate of Lend " .. White " - When boiled with Sulphuric Acid it forms Sugar of Grapes. 4. June, - is in odoroug, colourless, tasteless, transparent insoluble in Alcohol or Elter but sol. in Water thereby forming " weilage. Its tests are Alcohol which takes up the water, and precipitates White flakes of Sum and

es es la serie de la companya del companya del companya de la comp was a start of the second of t and a second of the second of the second 17 state and the special contract of the man ter six, wants selected and appropriate of the west and the second of the second of the second and the same of the same of l'es. Vils have an sunctuoud feel, - a peculiar, olea juious. consistence, are inflammable tindolerble to trung extent in Water .. - The two classes are distinguished by drafsking on paper, when upon eraporating the volatile Cavo no stain.

and the subacetate of Lead which froms a white brecepitate as it did also with starch. -1-Second Lealurg: Nov: 14th 1833 Besides the proximate frinciples of veg. already mentioned in the proceeding lecture, we have another by fair the most aboundant in plants, not only of the liqueous but also of the herbacoous class. and this is 5. Legius. - It istastaless, inoctorous, insoluble in water, Alcohol, Ether or alluted Acids - By Lulp. Acid it if first converted into Jum, and afterwards Sugar of Grapel. Leguis, Jum, Starels to are all convertities into one another by certain reagents! - " Defer only in prop. of 6 Among the prox. frien we now come to the oils, - which are divided into 2 klasses. - The fixed and volatile? The fixed are also called expressed oils because they are gonerade, obtained by effiredding the secles. Then pare, they are word of since, but ley age and effrosure They become rancill. The called fixed, they are volalilisable ar a hear of bookwine's however is owing to decomposition taking place at that tomperature?

There are two kinds of fixed bils - those which on exposure become dry, and those which retain their unctuous feel . The first are called Drying - the second, Lat bils .-

Substance of stearen from steag such and claim from Exacor-oil) of which the Heasin is that which in many vils assumed the solid consistence, while the other portion cannot be tolidified at any temperature. The ultimate constituents of these oils are Carbon, Oxygen and Hy drogen, in which the Hy. is in excess. - Their distinguished fro perty is that with alkalies, they from Soup. -The volatile, essential or destilled oils are however of more importance than the fixed. They boil or are raporised at about 3000 but if we add water to them, they boil at a much lower temforature. They have a strong taste and odour, are solube in Alcohol, and partially so in Water Their ultimate constit. are Convon, Ay, and bx, - but some of them contain no buygen. Like the fixed, they are composed of two distinct principles, Stearoplene, and eleoptene. - The former of These, is that part which assumed the solid consistence.

Ult. constit. of Redsie are by. Hyd. - Hart - Hydinexces Bassorier, of which we have an example in Cherry

Another substance belonging to this vame class is
Resir. It is solid at common temperature, brittle
inodorous generally of a yellowish colour, further at
a moderate heat, and when set on fire will burn
with facility - Insoluble in Water, but tol. in Alcohol, Ether, and the bol. oils. If water be added
to its alcoholic solution, it wice be thrown down in
the forms of a white precipitate. Hence it appears
in many of the qualities to be just the reverse of
Gum. - Gum Resins are those substances which
are obtained by exudation or invision. Balsans are composed of Resin Ool ack and

Balsans are composed of Relin, Vol. och and Bursoic Acid.

There is another from inate frinciple which has
not been associated with the frigordine vis Tamine
- the frincipal substance upon which all vegetable astringency, depends It is friable, soluble
in Water and diluted Alcohol, but not in four Ale
has an astringent taste, and united with acids of
metalcic oxides forming insoluble compounds of

Fast of Jamin is sol. of Gelatin or Salt of from -Gluten, when ofposed to the air underjoes putre faction, owing to the Netrogen it contains, hence is fives the odowr of animal Putrefaction. -

in solution is precepitated by the metallic salts. A blue solution of it is randered black by the addition of a Salt of irow, and hence we discover This to be the necessary constituent of wik. When exprosed to the air, it becomes brownish und insol iluter is another bruiefole, which, the not found to a large extent in plants, exists in abundances in pains of various kinds. It has a very slight taste, is of a grayish colour, - febrous, - teacher, - elastic, - putrefies when long exprosed, is insoluble in Water, Ether the fixed or vol. vils but sol in boiling Alcohol, deluted Acid and in caustic alkaline solution. It is this principle existing in Flour, coursing the dough to rise and form when baked, light bread or cakes; or laccount of its, clasticity - begstathe Albumen is another principle, and is in Then liquid, it is soluble in water, but by hear, - Ale. and acids it coagulates, and becomes insoluble. But When solet it is insoluble in Water or Ale. - has not the tenacity of Sluten, but like it pretrefield where expoded. -

Extractive maller differs from an Extruct. - The former is a peculiar principle, while the latter may contain a number of principles, I even the former

Extractive matter we often find mentioned as a proximate fries and consequently it here desarves water and Alcohol, - but by exposiere becomes dark and intol. - Consequently a solution of it when of prosed throws down a precepitate which by Berse hus has been termed aportheme -Coloring matter menis than the nothing more thous that the substance spoken of, had colour. -(Desided these reready mentioned, there are many others paculiar to one or more vagetables, which are generally named by affixing ine as guine te. But if these prop. frien be united with alkalies They are terminated by in as morphia de / Vegetables are divided into roots, stems of bask/leaves, flowers, fruits and juices - which will be severally treated of in the order mentioned. First The Roots. - These consist of 2 parts, bander and the radicles or febres. In thrubs, the candles is ligheous, and in herbs Wis roff and fleshy.

COLD TO LAKE ME THE THE THE PARTY OF THE PAR . The second second second Mary I Care the state of the s The state of the s A STATE OF THE STA at all a second at the K The first that the second of the first the state of the s and the second of the second o 2 . Ale I - Thoras I was a - I ale .

clants are distinguished by their roots with ragain to their being unmal, becomed or perennial. They receive various names from their different Thapes and appearances, - Thus a timple Root cow outs if a single body or bandey with radicles -- a sprudle-shaped as in Carrot. - Globular or Spherioce, ni Aristottchea rotunda. - Lop. Shaped - Lut-globular appears like compressed Hot .-Concentre - Cylindrical - abruft as Blood Root of Friends te. They, are alse named Terpendicular or Horszontal according to their direction under the surface of the Earth. -Then purerous reedicted for ever from the stew of the plant invarious directions as is the case in Grasses or Divitales, They are called febrous Hants. Dranching-when the banded is divided into Na rious portions as in Arrells, Trees de? -Articulated, - when the root presents the appearance of deparate portions united as in balances. Le -We have also Subers and Bulls

A PART OF 14 the state of the s Appeal Carller The same of the sa * 16 100 1 **6**\

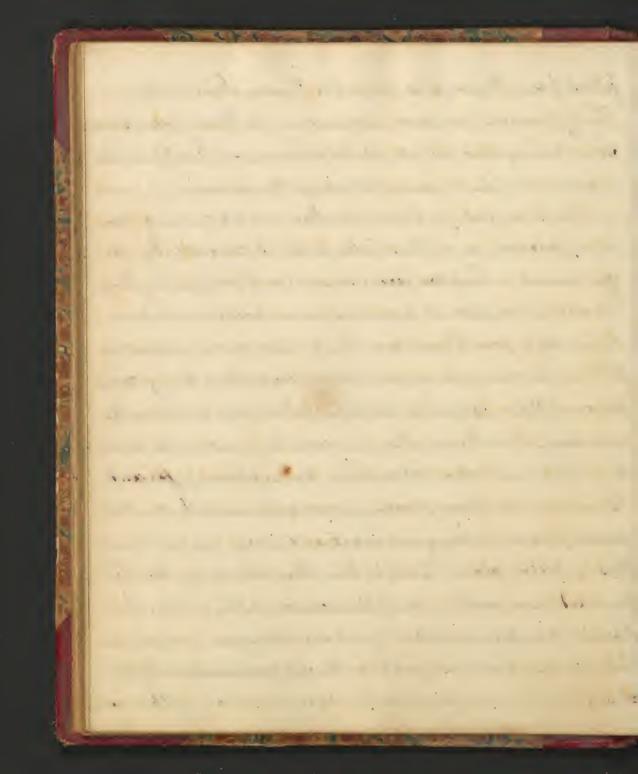
Third Lecture Nov. 16. 1833.

Subord and Bulbs, the usually associated with tooks are improperly so classed inasmuch as they per form different offices. They contain the germe for the new plant, and also sufficient nourishment to sustain its growth for a considerable length of time. The twent are generally flethy, and converted to the Hand under ground either immediately or by Hems as the root of Jalap. They are distinguished from the Canded by not giving out any radicled to unbelow nour Wheneut. They abound in starch, which is a Substance that nourished the young plant - Subers are single, or tome timed two, sometimes more annexed to applant. rometimes they contain one germ, at other lines a number as the polato. -

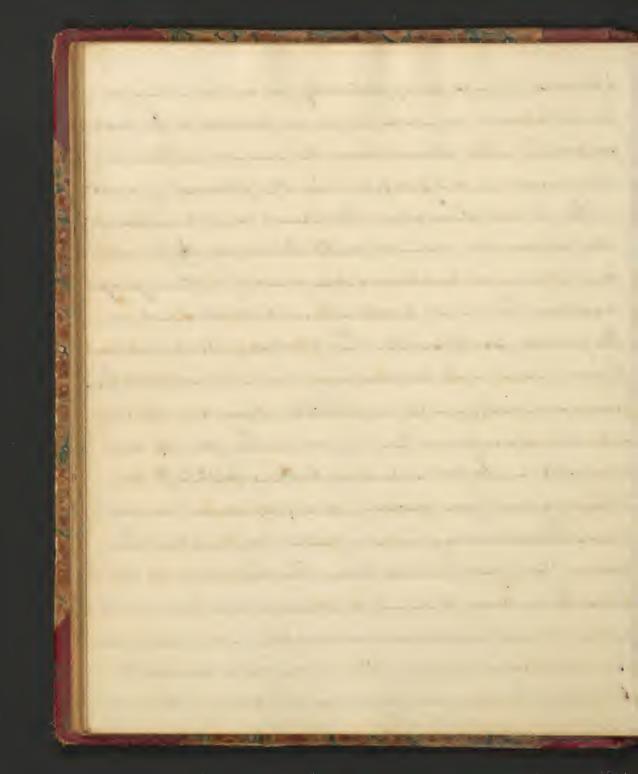
Bulbe, grow either under the ground, or above, as in Sarlie where we find the bulb on the upper extremity of the plant. They performs the same offices as tubers as to retaining the Leeds of a new plant, but differ in this respect, that they frequently send out

١ I, A Law Market a lace & 2/ d. a 11 . 666 fibres from themselves as in the Dirow, Squill the -They are also divided according to their consistence Some are called Solid as bolchicum, - Scaly as the Squile, Sily to - Samellated as Orionte.

looks consist of Sportions, the central and corhead portion, and this latter also is covered by an epidermied. - They are are either fleshy as in the Carrot, Turnip de or ligneous as in Frees te. In our remarks whow them, we shall associate according to their medicinal qualities or properties, being conbinced that they will thus be better retained wither memory. We shall also, in order to anable the Student to understand the botanical description of preducts as given in medical books, gradually introduce the principled of botany as occasions may offer, ilcening this a better plan than to tax the mind of the Stirdear attones, with all of the science, with which he Should be acquainted. We shall therefore commence with the cruetics and first with specacuanha befohaclis And here we parecive the very mention of the name



Cephaelis affords an opportunity for introducing a few botanical remarks before we proceed to the med. properties. All plants have two names in Botany, the generic and Specific. - In the flowers of most of the plants atherention the Same or whow separate stalks are two distinct parts the male of female, which as in animals are designed for their propagation. The male parts are called stament and the female parts, pistels. The classes of the plants are formed according to the Stainers, Thus Monandriafrim moros, one and aryg man) signified those have one stamen or male, - Diandria - two stamens de. The plants are arranged in Orders according to their pittels thus Monogypica from poros one and yorn woman) comprehends those having but one pistel or famale, -Digydia - two pestels and so on. His thew loing of the blass, Penlandria, Order, Monogynia, it has received the querie name of bephailis and & secific name Specacuanta. The name originated from the language of the South American Indians, and signifies, vomiting. It is a ma-



two of Brazie, whence It introduction into Europe was effected by a merchant, who requested a young physician to try it in some of the French hospitals in Cases of Aylentery & like (lise ase of. This proving satisfactory to the physician, he afterwards administered to some of Mode in the higher stations of society, and at length cared the King's sow by this . Then unknowns medicine. This induced the King to offer Wharge reward for its discovery, and the physician disclose the Lecret and received the money. The merchant however, not being satisfied that he should be totally debarred from the advantage arising from his own discovery, or suggestion, instituted an action for the recovery of at least part of the awarded fremium. The court, however, decided in favour of the Johnstician probably, owing to his having administered the region Ate dose of his premium to them. Sp. is a small thrut, growing in the moist and shady woods of Drasil; having its stem or root runing horitoutally under the ground for a considerable distance

If yields its cirtues to boiling water fatleated, but they are injured by decoction.

and thew sending up stems about a foot high, towns the top of which are leaves, which are offosete, ovate oblong, pointed, and resting on smale petioles. The root, which is the most effectual portion is from! to 5 or 6 inches in long to - contorted, with wrinkles which are circular - Its colours are various from a light gray to a dark brown slightly tinged withred owing parhapol to a difference of age or position. It is usually grayish brown, and consists of a cortical and ligheous portion. - The cor. for is thick, brittles hard almost honey, and somewhat transparent. When it is opaque or looks like starch it is of an inforior quality. Men powdered, it is of a light, gray-The fawn colour-peculiar mandeous odour which is aft to excite dyspnoea, - its taste is better acred and mandeous in a great degree; deteriotes by exposure to our Flight. - Tourth Docture Nov. 19. 1833. Emetica is the emelie principle of of . - and being alkaline, it has role its name according to the adopted hystern of nomenolature, The root also contains other substances

The different varieties yield different proportions of this active principle. - Brown yields 16 pr. ct. - Grey. 44 pr.ct. - Strated 9 pr.ct. J. White 5 or 10 pr. ct. -

: Mc prefer ap. to any of the other Emetics in a great . munter of ended. I. When the object is merely to evacwate the clowach, because it seldow or never extenits its operation to the Duodennew. - It is less apt to perge than the other emetics, I more safe I less violent in its effects - at is well to combine with it, a very male queculity of some active emeter, to ensure its operations. 2. Ilhen a frequent repetition of an smalle is required, I we with to produce no firstrice writcher, as in Asthma, but if we with to initate the Romach, we may a styly other medicines - win Mania, The Non Course sex ten-3. Where we wish only a mild effect; more of socially in all'enses of initable stomach.

as fatty matter, wax, gum, starch de but these are un importants this emetic frinciple was first extracted by Felletier but being very impure was called emetin This impure emetion it in brown, translucent sealed, has a bitter, acred taste, - deligues cent, - very soluble in Hater and Alcohol - but contains no peculiar this is found in the shops.

alkaline properties, It contains the four a emetia united with some weknown acid. - The process for oblain. Ing I'ved pure em. is de tailed at leight in the Disp. It is never former in the shops t relation week, it op is very violent. It is intoluble in Mater or Ether, but sol in Alcohol. Its incompatibles are the begetable astrongents. -Sp. is a mild and prompot swelle, with little contimed naused, and is generally thrown off the Homach in 2 or 3 vonitings. - The danger from an overdose is but Hight, on acct of its being thees so bou rejected, and hence we find an excellent and lidote for the narcotia poisons. - A dose is from 15 to 30 gr. - medium about 20 gr. repeated every 15 or 20 but the danger from an overdose of this is much greater. The feweral method of presending the emitie, is to order. 40 ps. lo be divided into I powders - His one up in /2 a teach ful of warm water, I give it, - if it do not opcrute in 15 or 20 min. Sive her other likewise. -Areat bought often results from its manse ating of Jects when fivour in Bougete doises of gris is here is but Higher danger from un overdoze, but an autidote for is the dufusion of dalls -Are may five the Dover's lowder in a lequide forme, by adding about fly XXV Landamum to about 35 or 40 got of benen ferre. - iven in Buall closes of 1, 2, or 3 pm. Sp. is an Expector aut. is ful in asthum to. - Our Sp. - is. sometimes profingle as jeet to convulsions. - Code about Att XXX to fir.

The Sp. given in dosed of 2 or 3 gr. excites mausea - of I gr. it is diaphoretic, - and i gr. an alterative. - It ifficinal prope are Pulv. Sp. et op. or Dover's Pouse of which we shall speak under the head of the and bimum of which is made by macerating 31 Sp. in a pint of wine for Ist days, then filter, - dose fire. Here it is well to remark that in obtaining wine for Bharm. purpodes, regard must behad to its qualif the best other, is both good and cheap, and is therefore recommended.

There are several opecies of Luf. Its which it may be well to quard against. - Due is the White, - the root of which is undulated, with small circular defressions, but not so near together as to form the rugode appearance of the genine Ips. - another is the root of the bicotria emetica, which grows in Peru & New Granado, It is distinguished by the wrinkles being longitudinal and the circular dep. nearly an inch distant. -

- Our next substance is Tillenia. - The root of the Tillein

OTHER PERSONS IN 8

Trifoliata. - called also Indian physick, - is the Same with what was formerly called Spercea Fri -It is anherbaceous, perennial plant, - its tend are flaxiose leaves ternate, Lerroite, pointed, ovatelanceolate, and its flowers are in looke pariales. Hopers appeared time I most thouse the justiend in September. It belongs to the blass stosandrea and broker of Penta-ia. Here it may be proper to romark that in The class scosandria, the Stamend are all inserted in the cary, whereby this class is disting from the Volyandria, in which altho the plants may have The same number of stamens, get They are interted in the receptables. The stipuled are small leaflike substances fixed at the insertion of the leaves upon the stalk, and in this long very small are called Cinear - It is found east of the Alleghamy Mts. - inglady woods de is so named from its large stipuled. It is found on the other side of the Allegham, mountained the Lends out mid. icles in all directions from a candex, - somewhat resembles Sp.-but is wrinkled longitudinaley, - of a reddesh

10 under enous. g

brown colour, - contains a larger liqueous portion andes tougher than Jo. - In sutstance it has little octour, but when pulverised, has a sweetish, the not un pleasunt Buell, to latte is better but not nauseous, - powder-brownish. The Bitteness is extracted by body trater and Alcohol -Its emetic frop are very similar to those of Specas, but I Said not to be to certain. Dose 20 to 30 gr. repeated Every 15 or 20 minutes tice it operates. -Wifth Lecture. - Nov. 21. 1833. -Euphorbia Specacuantra. - In gung a de Scription of this it may be well that the genies toupshorbia is of a Seculiar kind. All the plants belonging to this grand both with our fruinge, and our included in The bolanical class Monacia - This means that the flowers contain stainend which are connected with the pisteld, but that they bear on the same plant jernale stend al Los but they are not united together - Diacia means that class which contains the male on one plant and female on another. - This plant (hip. Sp.) is reremial and herbaceous, and prosents on the su face of the ground

I reducerose.

a small trusty appointmes, with leaved of taring Thapes and colours, - being lanccolate, oval or ovate and varying from red, green or frurple . - but notwithstanding this it may be distinguished by the flower in which we find a small female globule, generally somewhat pendent, - It Grant in various parts of the U.S. and is said to be very abundant in the sands of Jersey opposite the lity . - The Root is yellow, when fresh, very long - z an ends to an incloin thickness, nearly cylindrical, and Lends up smale roots or stems. - It is an active emetic, - lial-le the pierge and dangerous when taken in an overdose - The dose of the powder is from 10 to 15 gr. -- There is another species of this genus called the Euphortia corollata, which had the same frop with the preceding, but present a different aspect. It is erect, with cowed thick at the lower part of. the stem, and the cepper it is branched, and covered with an umbel of flowers. Danguinaria - Blood Root - The root of the Jan. Canadansis - at is a personnal, hertucas plant,

A THE PART OF THE dell' Annual Control of State THE PERSON NAMED IN COLUMN

with a root, which it horisontal, fremore, cuid dends off radicles from it - From one and of it arised the flower stem from bin. to I foot in height, on which grows the flower .- It is of the blads and brder, of yandria, Monogynia. The Leaf also rised from the root, is kidney-shaped, loted, and traversedly orange soloured veined - It flowers early in the Spring, and is found in the loody moult parts of the U.S. - The root is off from it to zan wich thick, of a brownish rad outside, and red interwally, very much wrinkled. Its fourther is of a brownish red, - had a faint narcotec o'dour, - better acrid and vous durable taste; - and imparts to colour and properties to Water and Acohol dan Sanguinarina has been said to be it alk aline principe: and forms red valto with acids -It is an agrid emetic, marcotic, and in overdoses proclined very violent effects - Dose is from 10 to 26 gr. A Sincture is made of Bij to a pint, of which a dose is from & Bij to fining. -11 - seldone week! -

Rhubart grows in South Metter part of Chinese Tartung. -on the borders of Thebet, I in the mountainous offices of Centrul asico. There are several species of the plant, Phenn Palmature, T. Mula la les ... R. Com procling, R. australe & R. Rloupouterune, the last of thede is not used in med - but the footstalks of the lawer are sometimes used for pied be- They contain some Bo: noxalate of Potassa to which they own their accelety. Though it is not certain from which of these species, the I intert of Commerce many be derived, yet it many come from atter one of from ale of them It is opported from the planes of Jaston to Canton, (whence we receive most of ours to St. Peterstring, hence we have two varieties in Commerce?

We now pass to the consideration of that class of Incliences called Cathartics, of which we know there are three sets, - Laxatives, Jurgatives and Inastic Burgatives. - As among the first of Cath, we Thale mention Rhubath - It is obtained from Thina, which country being very difficult of access to foreigness, but little is known from what species this root is derived. - The roots are large, thick and branching, - and send up radical lever of from the midst of which arises the stown, which also had leaved on it. The country in which it ground is the highest part of Asia, being bounded on the North by Vileria South by the Hemmaleh Mts, and East by China Proper, - and is comparaturely, barreis. - Root is large, - brownish yellow colour, and required much care in collecting. When about by s. old, it is taken up and deprived of the cortical party then out and dried, by drying it losed \$5 or 1/6 of the weight. There are tur varieties in commerce, - China or India and Russia or Turkey, so called from the forts whence

The Chinade, when good, is perhaps as of execut as the Russian, I is generally used. It is rather heavier, more compact, I has a stronger odour.

they are Shipped. The first bareety is much more abundant and cheaper, and generally found in the shops. - It is ry rindrical, of a dirty yellow colons and every becce has a hole through it, and some times we find a piece of the cord attached by which it has been suspended to dry . It appears eft. as the it had been soraped, - and when broken the fracture is not smooth, and we find red, yel. low and white intermingled Amoughout - It is light, porous - has a peculiar, somewhat aromatic smell, with a bitter astrugent taste, and when Chewood a grettmess is felt between the tasth must. the Salina is turned yellow. - the founder is of a yellouish cast. - No great care is taken however in preparing this variety for the market, and sometimes we find pieced, rough sotten or worm-cuten -The Muskian or Jurkey varietis is prepared with much care, and each piece had to pass inspection before it is permitted to leave their borders. It is of a brighter him. Than the China, and pieces appear is

European, comes from England & France & appears as if taken from younger plants.

the they had been pared instead of scraffed. They are more unequelar, and the holed in them do not paid farther than the centre for the purpose of inspection. - The powder also is if a brighter yellow .-The European Rhubish is sometimed in flat forces, heaver, - and taste more astringent, - less litter but not to good a purgative: - It does not colour the Saliva, and hence is preferable for chewing, - nor doed it crackle between the teeth us the others. - Its pour der is darker, and has a raddelish, brown trips The Phapointee Philast w in cylindricae pieces, more solid and heavy, - when broken the colours afpear passing in radii from the centre to the circum. It is less active as a cathartic. - never used in mod, In the choice of shubart, without regard to barutics, select those preced which are moderately heavy and moderately compast, - with a lively colour, brittle, and fracture presenting a fresh appearance with veins running thm N, of various colours, - of an aromatic octour, - better, astring out taste, but not hucilagenous, - tecling gretty when showed, and

Phabarbarin is a crystallizable, yellow substance, - insol. in cold Mater, sol in hot Mr. - Ale . I Ether, - In susolerle compounds with the acids, - volatilisable at a little above the boiling hear of Water, - has the proculiar omeli of Phutat da bitter taste. Oxal. of Line, constitutes /3 of weight of Assatic Mulant. -Jamin is the principle to which it owes the astrugency tollowing the Prugative effect. -Water by boiling extracts the active matter, but long boiling is injurious. - Alcohol also extracts down porture, but the best solvent is delicted Alcohol.

imparting a yellow colour to the valiva, - and forming a bright yellowith powder. Sight declare Nov-23. 1833 -A sew world yet remain to be said concerning the chemical nature and pharmaceute of preparations of Rhubarbs It yields its virtues to boiling after again from time to forming with the formier a yelloweth and with the latter a brown solution. - By long from is the area little above years briding trates - It long boiling, however, the shewn is injured - It contains an active principle called Rhowbarbarin which probably prossessed its purgative power. Beside this, another ingredient is the exalate of sime, to which are attributed the grettures of the Mhulast When chewed, and the whitch weens which travers The boot in all directions, - Jannion, aldo, is found and it is said that the purpative fruciple depands be kewise in some measure upon this. - Starch, and other outstances of minor importance have been retected. And here we may advance a general remark that when tannow and starch, cochiel

It is applicable in an enfection condition of the Stomach, hence swew in Dyspepsia attended with constipation, - Diamhea, - Summer Complaints of Children, - I in the last stages of Dysentery, when the Nomoch requires some touce; - in typehoud complants when they are not attended with inflammatrow, because it has no debilitating effects. - When given for habitual costineness, combone it with rome, other laxative as Joaps, - Magnesia ten -It is unforo per in inflammatory diseases . -Its purgative operation is not restranced by Openino. (Chapma) It is given in a variety of formed. - When given in The form of Infulion, - aromatics should be added to N. t it should not be boiled. - A food four is Cheun bout. Fy Card or Nature 3/2 or Jem. Founc. 31 agua bullante Oft. - Ma cerate in a covered ws.

in any plant, and are boiled, they form an in-Poluble compound, which is precipitated. -The medicinal properties of this plant are becule and valuable. It operates Hoivly but not profuseby, and discharges the contents of the bowels, with out leaving the contained water behind . - It is useful in a buriety of diseases, and expecially in low cases of typhoid fevers te. - Altho' purgative, it afterwards has the property of acting as an astrupent . - is tome, owing forhaps to the tamin contained . - It insparts to colour to the evacuatwis and have informed us when it operated. Roading increases et astruigency, but care must be taken that it be not charred in the. operation - It is usually given in combination with other substances, for the purpose of modifying and assisting its operation. When griping is produced in the bowels, soap is an excellent preventure. - A purgature dose is from 20 to 30 gr. - lax ative 5 to 10 gr. - Of Europ. Whit. - 2 the quantity. -

see for for 2 hours tite cool . - Tive a weneflassful 2 or 3 times a day or 1 or 2 latees pooriful's every 2 or I hours tile ir operates (There are 4. Luick - + 3 Sympol office,) Spicece Syrup of Mhubart, made by ma corating Mhu. bart & Spices in Dil. Ale, - Strawing, - muying with Jyr. Supstanny of the Ale. by water-bath. - so a chilo Tyr. old, give a teasproupel every hour tice it operates. The operation can be distinguished by the rad with Color of the evacuations. -

he official preparations of this noot are Infusion Phoi, which is made by adding to of Rhubart to 2 pt. or Mater, - maceraco for 2 hrs. Dise from 3i to Bij, repens ed every A hours tice it operated - vyr. Whei, and Syr. Phei et Same, - Dase of etther from one to 2 teaspoonfuls for a child for autadult F31. Syr. Phai Arow. Dose for - Tinck. Phic, - Tinck Pher et Alois, - Tinck. Where et Jennie, - Tinck Whe i or Tentiana - Dose of each about / 31. -Jalapa. - The root of the Spomeer Jalapa, - a plant growing in Mexico. - Here it may be proper to remask in order to distinguish the gener fromoca from the famus Convolvalus, concerning which many mustakes have often been made, that the Spin. has a capitale stigma, while the Cow. has not. The propose plant has a root about the suse of the fish, which is tuberous. - The stem rises like a true and livined around objects sufficiently near. The Caves are sagittate or cordate. - Flower of a pulple Colour. - Bolougs to the class Pentandirea and order

When dulap is wonverlen, it is vaid to be stronger, because The wound attack the whitish portion, which contains the starch de, I lears the other more active properties ...

Monogynia. It deswed its name from a town in tera Cres. - From an attempt made by I. J. R. Cox, no doubt exists but that it might be extensively cultivated in this country, especially in the Southern section. The tuter is the partured, -it-is dig up and dried-sometimes out in various directions to facilitate the drying. It is viate, very Solid, heavy wrinkled, and of a clark grey colour. -When broken, it presents a Shang resident fraclure, - firm and toled internally, with concentrie circles alternately of grey und brown. Its powder is of a yellowish grey colour, and when smuffed up the nostrels, excites meering, and had a heavy, sweetest nauseous volour, with a acrid - mande out taste. It yields its virtues partly to Ale. Mesin and Jum are the principal ingredicult worthy of attention- Redin is Said to be the being min and the summy vortion to act on the uniary organs Sometimes we find this noot adulterated with

Talap is frequently given combined with Cream of Vartar in cases of Dropsy, - I in Chronic Inflamma. bry affections. - he sorofulous inflammations of the Hip, Lines, Spine to, no purfative is botter outer Theen this: - it does not derauge the dijestive powers of the child will increase in strength during its use. The combination is usually 10 or 15 gro Jalap & Bi or Ty bream dastar. -Reduces Lift of French is more instating. The extract is proported by first making a Jinet with Rectified Alcohol, - then a briling infusion of the residue. - strain devaporate separately to the con. Sistence of Doney, then mix devaporate by a walex-bath to a proper consistence. o redyenois

Spudle shaped not, - with sliced not, which . Home have considered to be the michocican. -y they have not accomma cayen of dip colony. -These, in selecting it; should always be rejected, as well as those pieced which are very light, - or of a dell colour. - It is an active buildragogue ca thartie, sometimed causing poin in its operation. Dose from 15 to 30 grs. - 20 grs. a redium dode. It is ulually associated with balonel or with bream of Jartar. The off. prep. are the Estract and Just: Talapa - The eft. is of a dark-reddish col. and can generally be distinguished from other extracts by its edges being Slightly transparent, - It contains all the vertues of the founder-Dose 10 to 20 grs. Convolvulus Panderratus - Wild Potato. + is an indegenous plant, growing in various parts of the U.S. and is generally found growing in Landy! fields or in moist places, and flowers from me to August. - It had a large rook - leaved stand on petweet, cordate parlluriform, and belongd to the black and boter Gentandria, Monoginia - St flowers

a redu enous 15.

stand several together, are red at the base, but white at the border - the steen is sometimes very long, and it afor to have in it longitudinal fit-Sured . - Men dry, The not is of a yellow ash Colour Hterally, but internally whitesh and mulky. -A is a weak bathartic and slightly Kuretic. Dose is about 60 grd. devouth Lecture. Nov. 26. 1833. -Todophyllum Feltatum. May Apple - is an in: degenous plant, extensurely difficiled throughout the M. L. - is sometimed le much mondrake - It is an herbuccous, perennae plant - not is horosoutal; & Sometimes catends in this direction for Leveral feet, It is of a brownish-red colour,- jointed, and Lends If humerous radicles, and is from 2 an inch to our inch in thickness. - The stem is about Ift in height, round, - smooth, - erect, and at its summit sends of two leaved which are supported on petroies, - palmate, -peltate, - divided into los Jourseform lobes, - uased. From the fork of the Stew, proceeds a solitary

According to Digelow, its condition to are a litter extended.

tractive, Gunt Starch. It is a sure and active Cathartic & said aces

to be prareotic. - of the condition of said aces

(Chapman rays it is useless)

one flawered pelluncle, - flower is of a white colour and had runerous petals. - Delongs to blass forder Voly andria, - Moriogynia. - The flower is followed by a berry which is about the Loss and colour of a line: containing a number of Leeds, and by Some has been termed the weld lemon. It usually frows in moist thanky woods, and in a loose toil. Its leaved and shoots are vaid to be poison, but this is as yet doubtfue; - The fruit has a Livetiste, peculiar talte, and may be cater with impunity. The toot threnks much by drying, and becomes of a browner colour, - internally it is whitesto, and its powder very much rescubles that of Jalap. In out it has lettle mece, but when pulverised its odour is Sweetish. - I've taste is at first sweetist, then bitter, nauscout, and slightly acred. - It yields its betternes to boiling Water, and is said to resemble talap in it effects, and used generally under the vame Circumstances. It is often combined with Oalouel or with supertait tot. - surgative dose about 20 grd. -

[35'42 There's enterenter to the terretory with I there were sind much to the man train hen best out . - here me to broke the deale a 2 2 4 or 1 427 frace 100 1 100 1 to interioristical begins allow all will so it down to ensuring in the second appromises. The fresh root, when chewed, produced a bor unbing effect on the tongue. -

Helleborned Niger - is a peremical, herbaccous plant. - The root consists of a candex having severat heads, and from this landed proceed numerous radicles or fibres, which were the prortions recommented for use. The leaves dand on long footstalks which proceed immediately from the rook are derrated, and of a dask green colour. - Trow the mucht of the leaves also springs the flowersten derectly from the root, bearing one or two flowers. From the fact of its blooming in truter, it has treen termed the Christmas Hose: - Delough to the blass and broker - Poly andria, - Polygynia - Itis a native of the worth Castern bortion of Europe, and of the mountains of Spain. This was supposed to the the Hellebore of the ancients, until it was discovered by Journefort, bravelling in Anticypa, that that was of a different species, which he termed Hel: brientacid. - It the roots are received in our marker, the filred are broken off. - their coloured black externacey, but intermally whatesh, - having

It is one of the most ancient medicines known, of so frequently was it used by the Ireeks & Romand. that to intimate a desire for a person to be sent to Anticyra" was equivalent to saying that he was deraused. They calco it itelasochem. Beller's Pl 3 1 2,000 The first come of the It is frequently prederited in Amenorheade. The watery extract is mil der than the not itself -Lecoction is made from Fig to Dj-Dode & 3i fore of Just as an Emmunicapolice about 60 pM. 2 or I time, ella. L'almund Fairs it is most efficient where it others differ. -Commence of the second of the contract of a cet of the " - " But ou ; - Mars & coast and was and was and a

but little smell, and tasto, bitter manseous und acrid . - Its virtues are impaired by age. Water and Alcohol extract its vertues, which are enjerio by long boiling. It contains a volatile vil, and a bitter principle, but had not been analysed. It is a drastic, by drag ofue cuthartic - denigerous - chapman thinks it ought the discarded from that had - the there given in an overdose, froducing intethinal influen mation. It is also considered as an enemen agoque. Code as a purge from 10 to 20 grs. - aid an alterative for 3 grs. - Lose of Junch for. ---I begein. Bink Root - The root of the Sp. Marelan-. wiew or varolina Jank . The stem is foursided, and its be wet are opposite, sessile, - route-lancevlate, - & pointed, - its flowers are in a spike at the end of The obin, - standing all on one side. In corolla is seit, fundshapped, inflated, having its border divided into five of frent which lum back, prodenting an interior, 4,2 low surface - Edelough to the stable Irder, "entansiria, - Monogypia . - It is a nature of The continer states, being seldon found north of,

Vegelia enjoys a great reputation all over the world for its authelicitie properties. It is said to have. been employed by the Cherokee Indians, long before it was introduced into regular practice, - by a phy rician in barbina. - In male coses, it prodivers no obvious effect, but in large doses, if it do not puge, it excites dimuned of orsiow - Spasmodie action. of the musales of the face, te. Norm Jea - Spig. 3/s. - Sama, Manna, aa Ty, Savine Is in by boiling Mater. - Dose - Huneshassful-* Exote

the Hotomac. It is collected in large quantities in Teorgia by the Crook and Cherokee Indiand . The not is the officence past, - is generally matted together like inake Root, having a brownesh colour, faint smell, slightly bitter taste, and yields its vir tres to boiling Water. Souder is gray - This is you erally used as an anthelmentic, - in large doses it is Cathartie, or when it clock not purge, it porthe cost effects similar to a narcotic footow. The date of the founder is from 10 to 20 grs. for a child, I for an wdult 3, to. Bij . - An infusion is made of 3/s to a foint of boiling Water . - Dose for a child from 1 to 2 Vablespoonful's I for an adult, a teacufiful. -I enna is often added to the infection, and bal. to the powder in order to ensure a bathartic effect. -We now come to those plants included under the head of Diveties, and first on the. list stands D'quille - Scilla Maritima, of which the bult is the past used. It is an he Nacevier, peremial thank, growing along the whole borders of the

All portions of the bulb aire said not to be equally efficacions. The internal layers are too fleshing & juice, while the external are too dry thard - hence the intermediate portions should be preserved alones, & wheredo care is requile to in ary in them. They attract mo estruse from the air. - Its vertues are at ribea to. a peculiar, acred principle called Vallaties. -It it a journal Streem and, and of cellent desirelect, said

Meditarranean, varying in sixe from that of a man's fist, to that of a child's head: From the bottom of it proceed radioles. It consists of scales, which are thick and fleshy internally, but ifternale, become thimser. From the lop of the bulb foring the leaved, which were long, bruceolate, y reen, - Maning a number together from the midst of which preses the flower stew, and on this is a spike with flowers Slanding all around it upon pedincles. Belongs to stads and brder, Hexandria, Monogypia. - To propine A for use in its native countries, it is flived transvorsely and earefully, dried . - The bulbs and of clift. Colours, varying from white to red, hence also there is a great du ersely of colour in the powder. - It hould be kept in a dry place, because it deteriorated by moisture: - It yields its virtues to Water, Alcohol & In recent state, it is more acrid thou when dry, It is ometic in large doses but it generally oneto act disolly by should aling the worsels of the kedneys. I are from I to 3 ps. - If it produced sick ness. - Nausea is a sign of operation, - of the more a person can take without its producing this effect, the more aft will it to act upon the kidneys. -

The time year, & syrup or Honey are occasionally swen to infants as ometics in the close of about it leaspoonfuls for a child 2 years old. -

Squile I baloured is an excellent combination for Dropsy - The first note upon the kidneys, - while the second stimulates the absorbents. I ldeful in Hy anthoras, as cites to . - The best plan, however, is to five them medicines in separate pills. - Pallyr. - Squill 2000 and to for sented where any exclanent vists. - it is as ful never the bromehad vessels a spear loaded with mires. - it is as ful never to the bromehad vessels a spear loaded with mires. -

played as a deciretic and expectorant. When given in bublance it is usually in the form of foiles . of its preparations de vice speak in our next Eighth Lecture Nov. 28: 1833. -The officence Preparations of Squills are - Acctom Scilla, which is made by adding Scilea Frij to 2ph dist bingar, - and add 3i of Alcohol, to that its che-Composition may be retarded, and condequently it may be better present preserved. Date med. Fi-Myr. Seilla, - made by adding 2 the of Sugar to apt. Acet voil .- it is generally used as an expector out, dose for an adult f3 to f3y .- The byguel soil. is prepared in the same way, Except that honey is used utstead of Lugar. - Mel sculla composition or laye's Hive Syrup; is composed of Iquels, Jeneka and Jart. Einste as the active ingredients. In order to keep well divring warm weather, it should have a spec gravity of 1.21 or even 1.3. - The proportion of art. Aut. is Igr. to the fai. - It is used as an

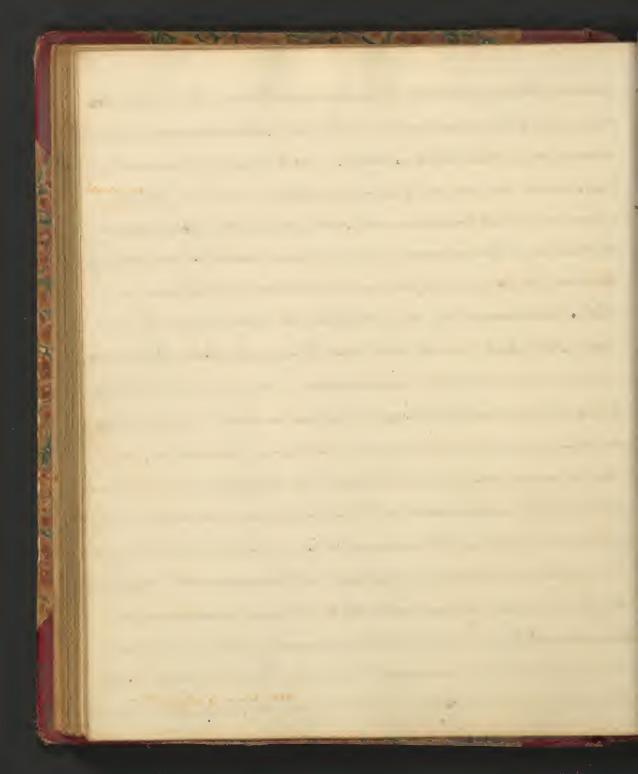
action. . Dose for Sever I lived a day . - The aget. Syr. or one, are jamerally preferred. - I are of acet for an actuer +3i. - Lyr. or day. +3ij. - often some with Diw. antern. and mond & lipo ce

Africant and unche in children. Dose from lendrops a ut 31. - Tinor Soil - Fing to 2 pts die Ale. Dose 30 drops Taraxacum. - Dandelion. The root of the Leoutedon Turaxacum. Ilm herbaccious, perounial plant, found in all parts of the Robe, usually presenting As feriow flower in stass plats every where? The root is i rem les haped, - extends deep down in the ground, sending out numerous radicles, - and is of a reddish Colour. - Livectly from the rooks, spring up its radical, leaved, and from the midst of them' rided the flower. Hew cach bearing a flower. The leaf is long, fromted und runcinate. Belongs to the blass Sungenesia, that is a class whitaming those franks which have a number of florets adsociated together. - This class is divided into Arders according to the desposition of the fiorets in the desp and in the rong. The Jarax tobugs to the brotogualis, because the florets in the ray are like Mose in the clise. - All parts of this plant is wounded, anit a milky juice, especially the root. This is most abundant in the mouth of August, and

At it beneficial in chance affections of the liver, time ascites connected with andayor liver to

contequently this is the proper time for collecting N.-The root is most efficient in its recent state, - is leveral inches long, when dry brownish externally internally, whilsto , has a sweetisto, muciliaguous, billerish table, - no odour, - imparts its , virtues to water by decoretion. - It is dientic, and fightly touie, with some tendency to operate on the boweld .-It is used in dropody, liver compolaint to. - A clucoc. tion is made of Bij to a for wind as much as the Stomas, will bear, is given for a dose. - The extract is officinal. - Dode 20 or 31 grs. 3 times a day. -Cochleuria Armoracia. Hone Radush, is a perenniae, herbuceous plant, with rancal leaves, large, lanceolate, pointed, - bright green colour & solloped. - The root is taporing, - from which a long Stow rised to a considerable height - and at its extrem ity are small white flowers. - Delougd to the Class Tetradypamia, i.e. plants having six stamers, four of which are of an squal leight, but longer than the two romaining ones. - Men they have four tatrotes

mina, two of which are longer than the other tree, they are Didynamia. - Inder, - Siliculasa, v.c. fruit about as brad as it is long. - It has a pungent oclour, and a pungent, acria tatte, said to depend upon a volatile oil . - It is Himmelant, especially promoting the unwary secretions, and is generally employed at an adjuvant to other medicinos :-It is preserved by being befor in any Sand or by breing scraped and fout in Vunegar. These formore Ate have hetherte mentioned Those sott belonging to the dusses batharland, Emeters and Winnetees, but we come now to showh of one entrucing all these Muce properties in thelf, and this the both lains . - Mead on dayrow. The butt is the hart designated be the To tome Golohioi Madix, It is a prevenial, herba folant, and its officercy depends much upon the time when it is collected. He will commence? our description of it, as it appears in the face or in the calter part of Summer, because then the bull is of the face growth, - spovered with a lamella of a dark



reddethe brown colour, - and just legind to send of an iffer, no which rises the flower of the new plant, - it stands on a long tute, - it of a beautitul pule purple colour, - appears in Autump The come but sent out from the old one, goedon increasing at the expense of the latter. - In oping The fruit begins he take the place of the flower in the Sticke of green capsuled. Ity the end of Sum mer, the new bull had attained perfection, at the expense of the old one which had peridner, and the seeds are now visible. This built now great out its new shoots, and in its tune decays. Trang bull gives out & shoots, one of which often flour. thes, while the other pined away and dies . -Thus we see if The blant to collected early in the spring, it is very inefficient, breeause the young but has not attained Lufficient growth, and the old one had given out a great portion of its time is it the latter hast of Lumber, when the young The bulbs, when recent, contains an acrid juice; - they are not laminated but solid, - gray of ternally t white withins. - It is generally thical odried; - I the slices are either pearshafeed when slices werteally, - or have a noteto on one side (horosontal olices), - which is deep in proportion to the age of the bulb. -

but has attained its full growth and the old one has deanyed. - So different are its effects arising from the foregoing circumstances, as well. as perhaps the nature of the soil, that sometimes whole roots have been cales with unpunely, while at others 3/s has proved fatal. - The bulls are about the size of the tules, - pearliaghed, - having on one side a hollow running down for new flower stem; which is not on provided for the one on The opposite Ade. - Under the external caverny the butt is much lighter, and within, it is white and starely-like: Auth Licher Nov. 30th 1833. the leoteticum is a native of therebe, growing in mendown, moist places - Allempts have been made to cultivale it in this country, but have not been carried to a very great extent. It should be out and dried at soon asit is removed from the ground, to prevait the formulating. The dried butt has no odour, - a bitterist, hot, acrid and durable latte, - among its constituents have been noticed.

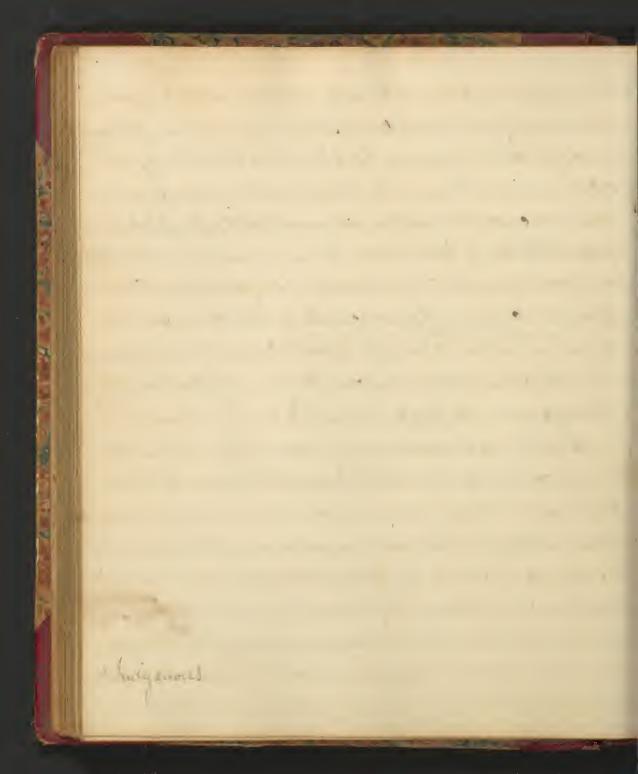
Coratrie was procured by Velletier Hewenton, in combination with levalic acid; it is white, pulverelent, - insoluble in Mater, - soluble in Ale. - forms uncrys tallosable salts with acids, I is very acred. - Dore /12gr. bol imposts its virtues to bine gan & Mine, I also to Alcohol & Waler -It was first into duced into practice by Baron I berke? - it increases the uninary recretions - but is sel-Close used, its place being dipplied by Vquill. to first effect is to act upon toweld, I if this is Checked its action may be directed to the skew or urine. -It was the chief ingredient in the Eau Medicinale so celebrated for the cure of Soul to. It is useful in Your, Mounathen & Neuralgie Affec. troud, - but not equal or in all the different stages. Also given in Severe, to cal pains, without swelling or any organd of Inflammation, but if there to any driften. first raduce the excilement by depolation It is well adapted to Chianic cases of Therewatcher de. I may be united with Morphia advantageously.

or peculiar alkaline principle, called beraticas, upon which its active properties are supplied to defecul.

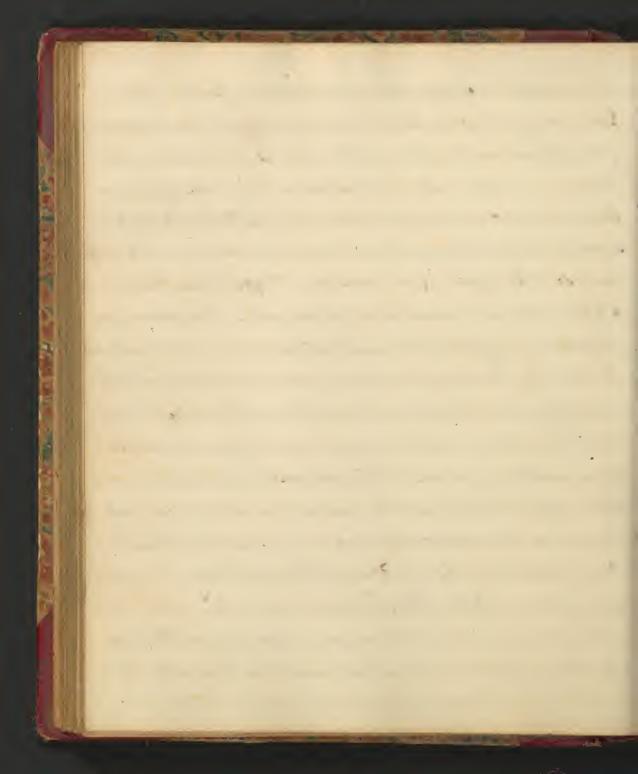
It produced a general influence over the newous tystem, without Wistersburg the brain like other marcolices, and in large Noses woulds & purges violently. In make dases, it burges moderately, and has a londer in, to excite the secretions of the skin, univery organs de. In overdosed, he vomiting and parging asea coon panced by with great prostration. - The nause a which it excites is exectsively great. - Some times it acts as an appec -It acts with energy in the cure of the gout, but Should neverte given unless presented by a physician on account of its dangerous effects. Dose butt 2 to 8 grs .-The seeds ripen in Summer and may be collected. us July and August, - They are small nearly spherical of a reddesto-brown colour, and their virtues radides principally in the husk, consequently they should not to brushed I r freparing the wine or tincture. They are analogous to the bull; prosseds semilar properties, reeds are more likely to be certain in their operation. -

-3.yh 9 ×Ex tie

The officinal proparations are Neet Colchici, made as Acet Scilla. Dade 30m. to f31. Seldow us 1. - Oxymel and Sur, bol - made as Ix & Syr. Scil. Asse +3i to fig. seldon usod. Vinus bol. Rad. is the form in which This medicine is ulually asturinstered .- prepared from htt. bol. to Ifit. Time. The wine, must be vaturated and consequently should not look perfectly clear, or of a pale colour. - Dose from 10 to 40 fts. repeated commence with 10 or 20 pts of increase - nory or 4 fors. - It is often associated with anodypes. Vin. Col. Som. - propared from 31 Som. to Ift. Mine is analogous in its prop. Dose for - 1-Another not associating properties similar to the preceding is the Maratrum Album. - White Hellebore. - On her baccous plant with a persunce not, sends up a stein several feet in height, on a hill are leaves which are long, pouled, oval, and embracie the stew at their base. The stews teminate in a pannicle of raccined. The root is fleshy, Spudle-shaloed, cargo above and lapering, and feills out a groat num ber of radicled . - When dry these rad are out off . -



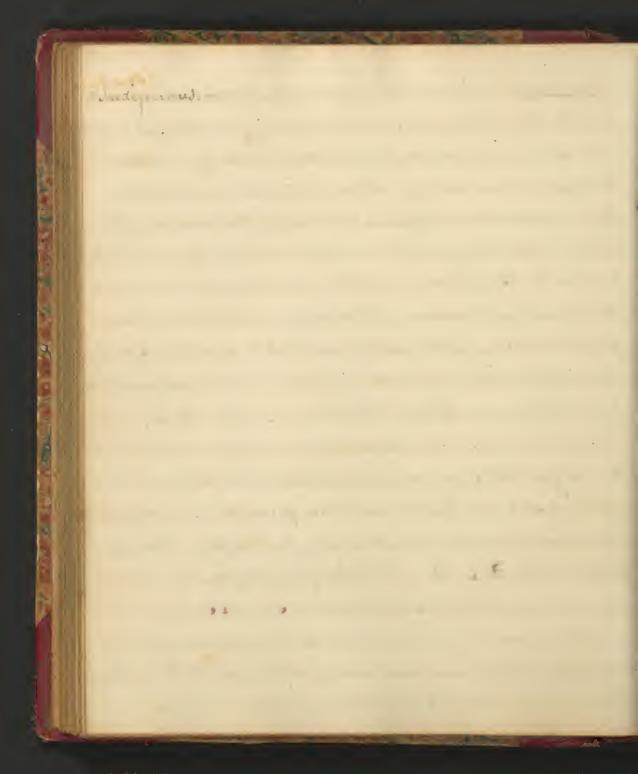
bur market is supplied with it principally from Germany, - it is clark extermally, - rough from ramans of the fibred, internally light. - It is a mative of the Alps and other suts. of Europe, - all parts of it are Said to be acrid and poisonous. - the taste is at first Swellth Their bitter, acrid, burning and durables, but being so old lefore it reaches our Shops, that these effects are in a measure dostroyed. The frucepais interesting ingredient is Verutria, which when puro, is white, pulvaruleut, uerice, scareely Astuble in Wat. but solutte in Alachot, and is not reddened by Nitria Acid. - This root, when given in large doses is Nioleutly smite and cathartie, connected with inflamma lion. Men smiffed up the node, it is a powerful entine. Powelined the extract of it is used as an Itel Bent -Tose of Hoot from Igr. to 31. - of Meratria 12 gr. - An Duck is mode of 3i to Brig Land. - 1-There is a glossics of Meralnew growing in this comtry, which is called ber beride, which is worthy of ruer altentions, rome being prossonant in large doses -



The Freen Hellebore has a dem similar to the Usuro pean vairiety, as well as a mot . - Ho lauves are lang, newed, of a green colour, - gradually decroading in size as . They ascend. The flowers are in pamieles which consist of branching racemes, each accompanied with a long bracke is long leaf coming out with the flower longer than the pedicela of The flower. Belongsto of y gamia, br. Monocia, e.c. plants having perfect and imperfect flowers on same Stalk. day perfect flowers are meant those having Stamens and pistels in the saine one - Imperfour are those which have not - This grows in Swampy, low yourds, frequently associated with the shows Cabbage, which it resembles in the from, before As stew has grown sufficiently to distinguish it -It is found from banada to learolina, I flowers from May to June! - Its properties resemble those of the European blant: - The banded Sends forth a frost number of jebres, and from the upper part a number of scales , rise to form the Men. -1.

2 S. Ause, cours.

Maherian. The root of a species of Chiococca, found in Prasie It is a shout in the form of a vine, box 8/1. in height. - The not is the part used, - which buries in theoremess from that of a strown to that of the little finger, - or limbreace, often contorted, brownish ash colour ellerweller; with a brettle reddish-brown bask, as which its birtues consist. - Internally it is Eignesus, consequently prosession little virtue. It has a disapreeable, acrice, olightly attringent take, yields its active Proporties to Ale. I Trates, which it is said defound apour valuere Acid (Pelletier and Carenton). In muche doses, it is lone, - in larger, duretic, and in larger stile, - purgative and emetic. It was formerly used in Frazil for bites of Serpents - was entroduced into Europe us a remedy for dropsy. Dose of powder from 3i to 3i - of Ext. 10 or 20 grd. ---Deut Leture Le. 3. - 1833. --to non come to the bladd of rotto included under the head of appeterunts, well uniony these, as first on the list on account et its importance, we will mention



Succesa. the not of Polymala Sociega, - or begge onable Roots - his herbrace and blant had a perennial root, it indigenous, - growing in ale parts of the M.S. but most abundant in the Southern and Mesterno Stated. From the root, several, every, Amouth, round stead arche annually from you to Ift in height which are formatimed reddelle at bottom; but green towards the top .- The leaved are alternate or scattered , lances late, pointed, of a bright green colour, and the Stom Commates in a clase spike of flowers, which are buse and usually white . - The clament are a lected in 2 pareds on this spike in whoch sach of which they are connected to jether which constitutes a class called Leader shi as (two brotherhoods), and as the orders of This class are named according to the number of Stanced, this is called betandrea. - on the shops this root is found of various sodes, - thick - knobby head, conforted, and along the side of it must a cord which Leens to draw the lower and of it, towards the upper. It is of a brown, yellow colour giternally, - within when

Notwithstanding the various analysed of deferant chance ists, the all of it contains a peculiar acres substance, supposed to be alkaline, whow which its tor. ilies clepsend. - I im it it is a comment To the among other by Filley and Analy it askedy Which is the first property to 1-11 - we will recome of the last recover, by the will in which hadd it is useful in Chronic Catanh, last staged of leverp, -Provide Bronchites, when we apprehend Contie 16 A mixture containing this is Mel Scil. Comp. or love How Syrup, which is given in sarly stages of Croup tell Tul its this vecins to de bear to be · der Emitic continued, in 3.1 2 verifice that

test, and is wrin bled transversaly . - It's cortical portrow is hard and reduced, and contains the active? principled of the nort but the internal is liqueous & comparatively inerty. Its provider is green - The vilou is per lear, facient when drivel . - to table is sweetich t mucilarginous at first, but afterwards sungent and resid irritating the fances. It imparts its virtues to Mater by long boiling, - and to die. Alcohol better. -This root is afit to be addociated with Surling which ground in the same neighborhoods, but is distinguished be the Shape and tatte . - - Inega is vanewhat Stundlant, - had a lendency to increase the discharge from the lungs, - also from the Ridneys, and in fact operates as a general stimulant more or edd to all the secretions. In large dosed it is quetie and outhante, that has been used in the latter stages of complaints of the lungs and chest. - It should not remerally ve used without previoud depletion. Dose, prowder your 10 to 20 grd. - Dut its most convenient forme is u desoction - Fij to a at troited to a st. Dose ffy Bord lines u day - I tous associated with Liquories & Jak. Ant. - Sur Dose Fit & fols.

of Jast " wenetics, because we are then free proce the steen. nowever, or after report. . it acts favourably! -* character of - The land for the start that me has in set to a place of the flower of Don't green language is a devotice the first of the

Winicifuga. - Black o nake Wook - The root of the Cim. Racemosa - ots Indian name is bohosh. el ... herbaceoud plant with a prenuncae poot, is indegenous, being abundant in the words of the M. S. more observable in July and August when it is in flower. The root sends up one or two sterns every year, of the friender . The leaves are ternately decompose 2d, three-lobed, - servate, - incided the flowers are disposed in vanieled racemes, - of a white colour .-Relongs to the class and brder Tolyandria, Monogynin I have deliente caly ved which fall down, and the Stamend appear the most promuent, standing out like rays - at grows in moist placed throughout the U. Stales .- The root as found in the shoft, consists of a thick canded which mud horisontaking under ground, is fine god on it whi er surface from the items which proceed from it, - and souds off a number of felses, unich are dary long, dasse externally internally whis tisto. Its oclour is factice, but reculiar - taste litter, icita econd, somewhat astrugent. It imparts its virtues

it is the solor, were the will a will a A PERSONAL 11 Dear Briggs of - Lugaron Ñ THE C

to iduling Water. It is a lonie, gentle stimulating expertorant, - somewhat diaphoretic, and xin Employed chiefly in Chronic colds, - userally in decoctions of 3i to a for Dose & By two or 3 lines a day. Dracoutum. Nembe Cablage - Ira . Fatedune This is a vory sugular plant, - is independent found abundantly in Swamps de in the U.S. - Was a poronwial root which deteends I or 3 in and terminated reruptly, Lending out a number of filred 2 or 3ft. long. the sputhe; which appears before the leaves, it ovates pointed, - its top droops, - edges are folded, and its base is aurientar - Within the spathe; Stands the Spadix, on which is a flower, appearing in March and April - Tetrandria, - Monogunia. - The leaf, appears after the flower, is large, -cordate and pointed, -The root should be gathered in autume or early in the Spring, and variety dried. Its distinguishing Hour est in a colatile principles which is food Lost and the root becomed useiced. - The lander is Ler Bin long, - light, much, and when frests, if brokens

in decrease the second second y o the policy of the state of with ac. is a good to to be again e again a ... dire 1 st 1 karinite, that is at 43. * 02 1/2 2 - 12 - C. + C. + ... Hack & good . to be about the the mark a flat out

presents a white startly uphearance. It februs are light Arwelee , - cutemale, whitesh. -It is a shoulant, antispas moders, and in large doses, vome to. It is supposed to have a tandency to act on the lungs . - Lose powder 10 to 20 grs. 3 , 4 tunged Aren. Fragon Root or Indian Surries. - The toot of the Arum driphyllum, - has a paremual, two torous root, which veied up in the storing, a flower suclosed in a spathe which is ovate and pointed. The sparling is spiridleshapert, on which are the male and finale flowerd Widlinet on the sume plant, house it beloved to Monacia, Folyandria. It usually sends up one ir luo leaves standing on long futitalks, each having I leng lets. of colour is barious, - grows in North and touth America, - in damp woods, detected, I moult placed . - The tuber, which is the bast used is turnifor-Shape, surrounded with a lade-wrinkled opidermis, - internally is white and anylaccout, - from the Duckes in dir. eler. - Its most romarkable characteristic is its viriently acrid tatte; producing a burning; beting som

digital out to enter the contract sepies. It so way has wire a a al to a to a constant a constant of a land Eloxotion

Salow in the mouth and Almal, This acrist frinciple is very volatile, and can be driven off by hear - Itis not imparted to Hater, Alcohol or Ether, but when hear ed and inflammable vapour escaped, whom which its virtue is supposed to depend - It may be pre served for a year, toletably fresh in ary sand, Itis a violent local wetant - Tiver intermally, it Stimwhates most of the secretions. The recently dried tost is preferable. It is generally given in the close of logis in the form of an enutsion, repeated & or 3 times a day, gradually increased to 3/5 or more. Cleventhe Locture. Goe. 5. 1833. -

Allium- Parlick. - Bulb of the Alium Vativum.

native of Europe, and to distinguish from the garlick to
abundantly oversporeading our country, it has been tomed

Cuglish Garlio - It is a bullrous, peromise plant,

which sends up at first leaves, and afterwards stems

2 or 3 ft. high, whow which are long, marrow, grasslikes

leaves. - but the top of it is a stoherical mass of bulbs &

fourth mingled together, which are enclosed in a spathe,

in a cold by being accounted with the said and 2 - Second for By take Destruction is all house to is the section.

that afterwards falls off - Belonged to Class and Order. to sandrio, - Monogynia. - The bulbs usually come in bundles, each bull is d'innounded in the a whitish covering of Leveral layers, which being removed we send a number of maller bulls called Cloved arranged around a central axes. - The odour of this plant is very familiar, - tatte bitter Vacrid .these are attributed to a volatile oil, which can be saparated by distillation with water, - it is yellowish colour, pungent and acred, and when applied to the skin will sometimes blister. Men fresh, the full contains a juve which when expressed contains ell its birtues, a but will yield wearly by the weight .-It imparts its vertues to Wine, Alcohol and Vinegar and partially to Water. It becomes impaired or injured but boiling or by being Refor too long. -It is an active stimulant - being directed principally to the nervous Lusteno, - it may be classed as a stimulant divotice and expectorant. It wil is excellenely fromtrating, delfuling its odour thin'all the Lecrotions, whether afof the week to be a superior to the superior t His will and receivery more of the land of a go to when how the exident lato ist not one, in bre therey, est also four aperat liminution of account coil ... and it is the way in the second the the state of the contract of the last man to sopra to the work. Millian Sylvening & Commission of and the state of the state of the state of be many this none of Barrie withing therease L'inte p. o Rome o re a une et l'es e be a cost aboundants from she

plied externally or internally. It is sometimes used as a condiment . - as a stimulant expec in calumbalically asthma to - Lonetimes it is brinsed and applied in poulties to allay nervous irritation. In substance dose from 30 prs. to 3i - Dose of juncarofs. or in the Alium leefan is a variety of this - Omon - used only in downestic practice. - , - He next proceed to the class of Leaphoretics. -Narsahanella .- is the root of Leveral ofsecres of melax. - That which is usually found in the shoft is not the root of the Smelax Sand as is generally Supposed, This species (Smil Sard.) is a maline of the U. States, in low, swampy placed, and somewhat relembles the Groem Brier. Its stew is long, green, clumbup, and beset with prickles, - leaves ovate and pointed, flow-21s whitish sometimes luged with rad, - followed by a red berry . - Belough to blass and Order - Diacia, Hexrudria. - There are different spaces of this plant fruid in Mexico and the northern part of S. America. hey are turning plants, treset with breard or prines .-

etge , species 2 0 4 1 1 10. 25 10 - Act = 1 + bince e. far 0 0 1 1 2 2 1 1 2 1 1 1 1 2 1 1 2 1 1 Sout Sout 20, 728 to 1 a sofor. Pratilian Sardafo. is vaid to be the bost ocommands on tigher times in Emope, - hence is not trought here . -

There are several transected of it in Commerce. The most extermed in our market is the Gouduras Sars, which is brought from the Day of Honduras. It could in bun deed folded lawthwide, and socured by circular turns of the root . - Another variety is the Caraceas Sursap .-This comed from La Suryra, and is found in builles like soparate rook backed together Another baraty is that from their Court and Jampier, which has not been long in market. It comes sometimes in the form of the Honduras, - Sometimes of the Garaceas panet - it is not highly esteemed quencery, but judyuy from its avoid tatte, I'M. believed that, when glean ed of its incumbant felth, it is the bolt - there is an other variety sacced the Lisbon or olevilegro Sarsa which is highly esteemed in Europe. It found from the foures of the Grenoce and This Nepro Civers, and is distinguished by its amplaceous as sect inthe interior. Fiere is ansther variety sometimes mentioned called the Jamaica Sard. but this is more properly a variety of the Houseway di a reddesto apidermid.

the formed of the common process to the contract of v. a oti, lu loule ad seem d'america of 2/20 . 1. 17 1 1 - corre don't al I the while inter a live 2 - 1 otally when posed is the document of the contract of the second with the disselver of interest the district the total - perhaps become authorited to Holer afterness to 12 2 2 de court march la la ...

The dreed roots consist of that many feet long, are about the order of a suill and wrinkled Consitudinales The colour of the apidermid is usually of all grey but tarious sometimes black, - or roddish. - The back itself s sometimes of a punk colour, - sometimes it presents a stands- like appearance which was formerly condidered an evidence of the excellence, - but is now consider ered a good evidence of its deterioration. - I hastat little odour, - laste mucilaquous, slightly bitter & a and. When it has no table, it is useless, - and its bertues are according to the critation which it excites when chaved. It untrast its birtues to Mater but is impaired by long boding - Its best solvent is deluted Alcohol. There is no article in the whole range of Malena Medica, concerning which there has been to great a change of opinion among formatitioners as this this dues. site, nowever, must be attributed to ignorance of the acthe principle, and consequently, not being where to propane It in a propor manner. - For as starch in as thought to the act frie. They considered that the more a de'in mound a bereaule i dardus, is not understood. Itsesults housier use obvicusty ben ficial - at is in ful in appinilis, - Dephiloid & ideaded, - Sonofula, - Chrome than. materia - some culancons affections to. - Bu is inadequate to the come of Syphilis, - o Thould be use rule in : secondary state or after a mercurial courses is used wither us Decolet - Syrup .- or cut. Santep. -"Level Lastalo Comp! - Dose leacupper 3 or 2, times a day." 41. Jarsapi - "Equal in " "uncy to Swam's anacea 14t. Lars. - Tose 5 to 10 ps 3 or 4 times a day . - The I wire Extr. is about equal to the grup. ---Alcoholic Extract, is probably the best prefi. -

Coction was boiled . the better, - but the contrary has proved to be true . - The most afficient form of admis istering it is that of frowder. - Dase The di repeated 3 or of times a day. - it more common form, how ever, is the liquid. The most efficient beshaps is that of an infusion made by defedling it for several hours in water not above 180. This is the form profemed by Hoch. It - and wrich he has used with most Lucroll. A syrup however is often preferred on account of the being more releasant to the taste. - It is a deaphoretic and diviratio; according to the vertices udualby attributed to i', but it is more probable that it acts by cut tituting a new action of Ut own. False Varsapurilla. Aralia Andicaulis. Small Spikenard - is un indegenous prevenical plant, with a horozoulal root, which sends up a single lang standing on a roug leaf thatk, and this divides into is leafiets, some luned into D. - xea, lets are derrate; bointed and ovale ot our. The flowers stand upon a long coape i.e. stalk wis-

ing from the root, - which is terminated by 3 small um-

The state of the s + loveles -

. TANKS OF 1 1 1 1 1 1 S Dis. . and the second s 4 • A - 1 A - 1 - 11 - 11

Sandy soil, is cylindrical, and had few febred. - Each sends up several stand branching at their summit. The leaves are compound, punate, unequally paired a with a hugher ecapiet at the cuit. The leaflets are ovale, oblide I muero. nate: - The flowers were in spriked upon tootetalked which are inderted in the axeld of the leaved - are of a tweet or pur ple solour - isolough to blass & order diacelphice flow brotterhoods - Decandria. - The fruit is a food containing of, 50 I Leeds .- Ate have Lind that it ground in Europe - It is alde found in egria, "Extin, to, and might be successfully cuttinuted in the U.V. - it would thrive well in the dands of Jestey. - There is another Species of Glycy r. which yields diquoried - in which the leaflets are pointed, & the flowers are in globular heads: - In this species too, the slipules are dary iisiteco, being lanccolate and pointed . -There is aido another species which is endegeroons growing in Mistouri, called The depedeta, but it is not used .bur market it Chieffixubplied from Span, taly and scale It is of different thickness, and too well known to need description. it is apt to be no sourcater, and when too

Ils iaste is to agreet tar - pu to porto or to die con the wing to the a. Por last to the constitution of the I for it 2 y ate is prace per tate from lo le lister and the second second •

much to, should be rejected. It is invidorous, had a sweet, mucilorgin out tatte; with a olight degree of acremoney which is said to defens reside in it cottoal fortion. Its sweetness is said to depend upon a vellow frie cifile called bluck which, which is varcely soluble in Atold Water, but very soluble in boiling Water, or in Ala. hol, - is insusocplible of vinous formentation, and forms insoluble compounds with acids. It also contains among other properties asparagio, which is machine, and a salt acrica resin, whom which its acrie property de pends -I'll is an excellent elementeens, ling useful in calarhal affections, - hast own in the form of decochon with water und is often added to world substances, to oblined their writing. - Its powder is recommended to frewent piles from withering to pether, or to give them the wondedtende. to txtr. Glycgr. is oblaming by boiling 3i for a few mine who in aft. of water, pour it off and waporate it - This eft. Should britent a thing une form fractione; - but if it presons an irrejular fractione, or is soft, it is not wort - Some land it or alund to " ner from the boilers to well in we have been used . -

4. The state of th 100 10000 The second of th to reduce the second 5 ical and come developed to the Comment VIII a - will be the wind at any the action of Can de la Company de la Compan

It is much employed to allow cough to by putting a piece and allowing to dissolve gradually, in The mouth -Refused Liquorice is made by distolving the oftract in Nater without boiling, straning and grape rating. - Sugar or Jun is often wilded to the decoction. - The Soutreface lodenged are the most mild preparation. x Brand quinquetolium. Suseng. Has a perounal root, - is indigenous, annually sent up her baceous stems, which support 3 leaves at the top, each consisting usually of I leaflets, which are ovate, accumulate, and deeply servate: The flowers are in mall unbold Stand ing upon fortitalks which arise from the top of the stens, - are of a greenish colour, and followed by flattened, Hidney-shaped, searler borries . - Belongs to blass & brder Polyganica / having some porfect, and some imporfact flowers whom the Same plant, - Diacia: - according to American Potawills to Poutandria, Deferma. - It is very abundant toyour the Alleghany Police, - found also on this side: It also grows in chinede Lastary, - forming an article ofcommerce. - At one time; before it was much known in

your property on the state or make the eccel to the second of the second Late 1 the morning to . -1 (1 4 0 (- 1) A A LAND CONTRACTOR OF THE PARTY OF THE PART and and comment our of real and are out soll amond his.

our country, the Whinese considered it as worth its weight in Fold. The root is 2 or 3 inches in long 13, - spiridle thapen wellowish externally, but lighter internally - of not much used at medicines to the Althan. (Marsh Mallows - rout of the Alth. Oficinalis. It is an hertaceous perenniae, has a horison tal poot, from which proceed a number of febred, - it sends up. Several creek stems, bearing 3 incised, three-lobed leave The flowers stand on pedincles which are interted into the axils, - have corolla with I segments, - of a pale purplish colour - Glass & brder - Monadelphia -Polyandria. The fruit consists of numerous circular capsules, arranged in a circular form, having the appearance of a cheese. - Each flower has a double early x. It is a native of our madched, - but what we employ is usually imported. It is of different sides warying from the tickness of a straige to an wich in diameter. With its epidemis, it is of in yellowish cotour, but we generally find it in the shofor deforwed of this, forelew ting a whilethe appearance. When chewed, it is mutal-

election and to the second fiche the state of it in may. the second section and the second section is the second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section of the second section is a second section of the section of the second section of the x (keles it is a fine letter, or mire in Company. it desert a la a contino o motion de un la contino was don't de y lou . - it sould the in since i we then I went print me that yet do & is said any actions of the state of a select prompte. a section or empower stages to be the territories to the ladion, for the harm's a factor of distant-

ugunous in reportion to its Acellence. - There is unother species. Althe rosea. Holly hock .- which differ in havup 5-or 7 lobed leaved, - prossesses similar properties .-In Europe, Altho, is used as a demulcent, but ico This country is not much used. -: He now come to that blade of Roots called Attringouts, which comprehends those roots which cause the parts with which they come in contact, to contract. -Mrameria Whatany. The root of Kram Friandria, a plant or shrub growing in Brazil, in the sandy soil of Vere. The root is divided into a munter of branches, bory dark colour externaley, internally light and ligneout, - of various sixed. - Its virtues reside chiefly in the corlicus portion. It is modorous, - has a bitter, very as trugant, slightly ou cetiste tutte. - Imparts its vertues to boiling Water & Dil Alcohol. Towder red dille. Tinclus Ja deep red . - Its incompatibles are those substances which are incompatible with tannew. It is lone and von astrugant: - It was first outloyed in V. America, as a remedy in dysentery and diarrhoen, . there is it is into a record to the or the ten in the second 612 Lus h Mose color, quela se vi It is vaid to be an excellent remedy, in professe and wrefular menthuation. The second secon

and as a local application to spoury fund. Pose of the powder is 20 to 30 grs. - It is more surployed in the form of decoction 3i to a for boiled - Dosef i tofij: An oft is obtained by boiley straining and graporaturgi- is of a reddelle black colour, ven attringent Dose 1002/5 grd. - inchero is propared by macerating Bij in a fot of del. Ale for 2 weeks. Pose for to fing. Shirteenthe Liebure Sec. 10. 1833. Bestorta - is officional in London Than but not recognised in the U.S. Phar. - The root of the Polygonum bistorta. - Belongs to a gones common in our country, a street of which igrows along our gutters Ve. It is reperencial mot, Sending up Loveral herbecomes steened for 2 ft. high . - Leaved partly radical and partly from the stew. - he radical are lanceolate, conducte, or long footstalks, those of the stem are lanceolate amplexicalis. Thousen in a spike at the summit, of a bale rose colour. - The caly is want ing which distinguished that geners. - We may mention that Duepuheat belongs to this general - wistort is

, ., 31 0 po 10 0 - 1 1 the same of the sa X The server of * %

I a nature of Europe and the North of Asia. The rost is the part used, is cylindrical, oun preshed, foremorte furnished with numerous fibres, - dark brown ext. with annular wormplet - but it is med when good as the attriv. not are generally - Inodorous, - very astringent taste from the tamin contained. It wile andwer for astrin. fourposed, but is solding used in this country. Lase of pounder 20 or 30 prs. -Thubus villosus. - Colackbrerry Rost - and Hutral Trivialis - Centrerry Port - The genus Hubus com prehends many different species of indepenous plants known as the raspoterry Mackterry de - Have a per ennial root, Lending up Hourd partly ligneous, partly horbaccous, - of various height, - a med with frechles. the colour of the old slew of the It. Villascul is a reddelle troure, while Mat it the new is freen Its lear and termate or gunale, - ovate, pointed, servate, - flower white, in lemmal racemed - has five petat, - calyd five-eleft Welongs to whest and Arder, - Voosandria. Polygynia. The fruit is a berry divided into a not

As I do the total the state of a total and a contract of a con M. Comba to the second to the second o for a solo a belief a commission con a · wir delice of the state of the of don an an miller , and make in the St is often given to Children, boiled in milk, in the secondary stages of Chol. Infanture.

of small apartments, each containing a seed, house called our seeded acin; The Denterry deffers from the Hackberry chiefly in its growth. - It must along the ground, is found in handt fields, I neflected land, the blackberry along forces de. The off. vortious are the most, which are ligheous. branching - englindrical . - That of the tillosus dark brown & ft. - streated longitudinally, - wit reddell of the Irwiales, not so red - Both contain a large proportion of lyneous matter which is comparation by inert. - The active prop. reside in the cortical forthe - At is and orous. - bank, bitterish, stroughy attringent. imparts its virtues to briling. Water and Alcohol. Roots are Vouce and astrugant. - Alsoful in dies thea, tchrome dysentery - Sentraley used in decoe. made by briling to of the small roots brushed inti pti of M. clown to lfor - Daser wine glass ler vel gateties dies Serantum. Cranestill. - root of the S. mapulatur is a native of our country, growing in moist shady, world with a loose soil, - flowers of a light purple appear

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from May to July. The votis perenneal, horisontal, - He winder about Ift high, always branching at a certain height into 2, each of which again branch into I more, hence called dichotomong. Has no of Leaved, both radical and ariding from the Stew. The tadi, are Supported upon long hairy footstalks-irrejularly incised, - I lobad, - rometimes frotted with white . - Those of the slein are opposite - The bedinde arise from the fork of the stein, bearing sach I flow. en ou redicalet - There are also small Stepules .-Belongs to blass and brder . Mondelphia . Decandria. Fruit consists of I captules, adhering to the pittil, which when ripe, curl up I scatter their seeds. The root when dried is finaleer, very ragged, beset with many febres, - rather flat - lord in long - about int in in diameter . - brown oft . - groundly red int . -Taste astrugent without betterness. - Frequently give in the goe to boiled in puck - sup. birties to 1. 1. Ale. - Used in diar - bowel complaint. Dose bow 200036 Prove. Fr in /2 pt of W. to 1 pt. Desc weeflast Nor 3. times day.

X STATE OF THE STA P III P Sh -The state of the s 5 The state of the s The state of the s the six of the second A P A SI THE STATE OF THE STATE and the second second the same of the sa and the second second second second The water - - in the second of and the second second

Vormentella. Now of nor Errecta, is not a pative of this Country, is a perennial, herraceous plant, root horison tal with a number of febres, sends up several steel for Jim high, branching lowards the lop. Leaves are compare od of der / leaflets, temunal are larger than those at the bade, - ovale, lanceolate, pourted derrate ilour are small; single, yellow, on axellarry peduncles .-Mult dorder L'esandria, Polygyine. - Frontie Empe is not juich used here. - Direct roots are contorted, formerliat round and flat, full of tutieroles and febred, vary solid, hard, brittle, - brown oft - int. redditte odour lang slight rather aromatic, table very altriger. Loudraile, used as the other attringentit. - Some Supoto 3 He now come to the trade of Jonie Blooks, a.c. those calculated to increase the vital sower of these barts with which they come in contact. As the first of hose, we thall notice Colomba - Columba The rost of the woodilud palmatud or a level pormien palmatum - is a nature of Mosambrine & v. Eastens part of Africa. It was long un known to botameth, but is now adser-

and the second of the second of the second the state of the s , it to be a three where it I should be been May 10° - L B 20. 110 - - 110 1 P 1 son some of the state of the ser. a de let 3 3 2 to the the stance of the and a contract of the contract on a formation of the second state of the formation of a soile as a from the tell and ordinal it is A. 12 4 , 7 20 1 10 72 20 5

tained to be a true, having a rerouncial root, which doseemeds perposels outarly, and had at the bettour, a great number of offsets, which are the parts collected while the old root is rejected. Leaves are palmate, 5 lobod. Flowers are in compound ruce med . At before mentione it is a nature of Morambrique, opposite ladagas car, growing in the freets. The not is dieg up in Mare Shock, and, and exported. The old or upper part is woodly - the offset fleshy: - At found in the Shops, the root is in flat, aroular pieces, which have been sheed, from 8 of an in. to an in in thickness, - circular, and los Dinches in diameter - Cortical portion is graenish - home yellow and spongy internally . It is often marked with Concentre eindes and radiating lined - It had tous-Tues been a lulterated with white bryong, turged yellow by the sinct of Colom - but this is not shrunk internally had not the firm cortical portion, and is easily detection is a purfature, but not used . - Columbo has a peculiar rouse hat aromatic odour, better, aromatic laste, from. der of a greenist tuge, and becomes brown by age ten2 40.0 23.0 2 3 1 1 1 1 1 we will a server of box to . -but it is here at the second secretary beginning that it has and the second that the second el and week a shat since to be cleared to the of a de to the case into win to were and the bell

posure . - In selecting Colouta, those buck are best, which are of the brightest colour, -, most compact and uniform, and most free from wormsholes. The cortical portion is most efficient. It contains a volatile oil, to of its weight of starels, and a bitter principle called Colombin, this is slightly in water, alcohol or other -Travy intendely britter, more soluble intrilugate. The test of this root by which it is distinguished from busy and other adulterations is dodine - If a part. of the rost be wet with hot water, and Junet. Loud. applied, it will turn black, - owing to the starch fresent. at is touse, without astrugency and slightly if at all Minulant, - used in typpeptia do: - Severally fucion the form of infusion, made by maccorating 3, s. in lpt. of brokens water, with a little ginger & semma added . Gode - wine glassful 3 times a day. If the inf. be long briles, the tist oil is driven off, and it becomes Sling from the starch. Pose bonder 10 to 30 ps. atis much used by the natures of Mosambeque, 4) Africa in aylenten, of the like -. - "

3000 "only and" Fourteenthe Lecture Vie. 12. 1803. -

There is a fastion provalent in our country of attaching the named of foreign works to Phose which resemble Phone in this country. Such has been the case with the root to which we now turn our attention The American bolunte Frederic root of Fras. Walter - One of our most branleful integerous slauts, - grows in the Medlen Males, espe-Cially those South of the this. The nest is horismutal, and sends up steered in the third year, - previous to that the rad real leaved appear. - The slew rises from I to 10 ft. high; is erect, strong, smooth, yellow, and on it the leaves are plared in wholls we ale ofringing from the same fount of the Hem branching out like a star. - The distance botween these whorld, and the siste of the standeaved dimends as we approach the summit deares are oval, of luse; radical about Ift long, The wifer ones Morter, lanceolate und pointed. It bredents a beautiful regramidal summet of Howers, of a yellowish white colour, from one to five reet long. Belongs to class and briter, Tetrandria, Mono-Jylia. It his 4 rotald, and ealyx is divided into A Sogments.

in a sold it and it is Lukete Harristen - Start Lit & Dealer Roman , 40 x to the contract of the contr - 1

The fruit is a fear capsuic, yellow, had the margin their ner than the unddle ordion, tends in a point - -the lost when taken from the ground is out in braultende flered and and and The flered are irrefularly circular; & of an inch or more in thickness. - yellowills brown cuticlo, internal portion yellow, and somewhat depressed like the Colombo, but it does not present the streated and concentra appearance. Is differ also from Columbo, by not being affected by the tenchura of galls. Hater or Vil. Alcohol extracts its vertices. It is a better, milet tome - Dose of the bourder 30 ps to 3i -An infusion is made by macerating Is in bot of briling water, - D'ace, a wine plassful 2 or 3 times a day. Ventura. Sentian Root of the Lew litea, growing in the mountainous regions of Europe: - It has a thick, long, branching, seremiale root, from which rises an herba-Court, weet stew, 3 or 4 ft. high, from which wast out the leaved, distile thered. The flowers are disposed in whom's at the axils of the upper lowed on peduceles -Belong! to Island and breter, Sentandria, Deferma. -"

we will a started as a stage of the a started in

The corolla is divided into & Legimenis. - Has one potal. The Characterestic mark by which it may be recognized is its ferns, which is large and cancellated, divides into I Stigned or ristell at the top. - There are several offer cied Said to yield this root for commerce, but they we comparatively unimportant to is. - That with which our market is supplied is penerally imported from Germany . - The dried root is in pieces of various sites! wrinkles, twisted often, yellowith now ext. - int. yellow As found in the shops, it is often flexible, but when dry it is brittle - Sometimes it comed in theses from a large root. ats texture is frougy, - has a seculiar, but feeble odour, - Sweetist, very bitter, but not nauseous tatter of imparts its virtues to Mater and Acohol. Its most important principle is a bitter ext. called Pontianin, is a yellow ching stallisable substance, sol. in Ether, Ale and boiling Maler, - stightly in looked Water neither in alkali or an acid at contains also Sugar, hence it in useon will it proporty treated underfo the vinous formentation, roming Lenteres Beer, which

I me I me depart the house on and it was the whom Emiter, Page War For

is much relished by the swiss and Tyrolese. Tentian is a powerful and excellent touic, improvtup the appetites; Averythemes the degestion pryans, in last invigorating the frowers of the system generally. like other towies, it tomits and purges in large doses. Your of the pouder is from Il to Al gr. - but it is generally fice in infution, made from 3/1 to a fit of boiling Water, and all some brange Red & lovember deed, - sometimes a little Ale. - Linek is made also with finelar addihoud. Dede for I death ooufuld . - The Mine of Sentian is a good touce of the kind, but here we may romask and for use, that tomes when given in form of Suchuse an ut leads inst, and frequently injureous, because the Ale Continued is more them a sufficient stumeland to consterned the tome offect, besided the clarger that the patient will intele a fondued for artent Sharets from the Shydiciand prescriptions. - The lextract is very useful - obtained as usual by boiling of evapora ting. Tode 5-10 or 20 frs. - Very fraguently given in The form of pill. -

The work that I have a second and A SECTION OF THE PROPERTY OF T Commercial And with the state of the Acceptacy, - Pittsburg: Wheeling to . -

Verpoutaria. Virginia Snake Root, The root of the Aristolochia serpentarea:-is a native of our country. This is air her baccous plant, with a bereincal root, which has a knotty candet and from this proceed a freat no of fibret, yellowith when frethe, become brown by age. It Lends up several stems, which are sound, flexuose, jourted, Render, from 5 or lin. to Ift high. Leaves are oblow-cordate, - pointed, standing on thost foottalks, at the joints of the Stew. The flowest tand an long, jointed footstacks; often concrated under the old leaved. Thought to blass and Order Eynandria, Hetaudia. - In flowest belonging to this blads, the Stamend are inserted into the postels. Had no calys Coroller is , sur the , tarbular , expands at the base, - contract towards the top, and offair expands at the top, terminatuy in lips. - Fruit consists of rapacles, with deveral flat Leeds. It growd very abundantly beyond the Alleghang and is also found on this side. There is another species of this called A. hastata, from 15 hallate last. containing Limitar properties. - Another Species called

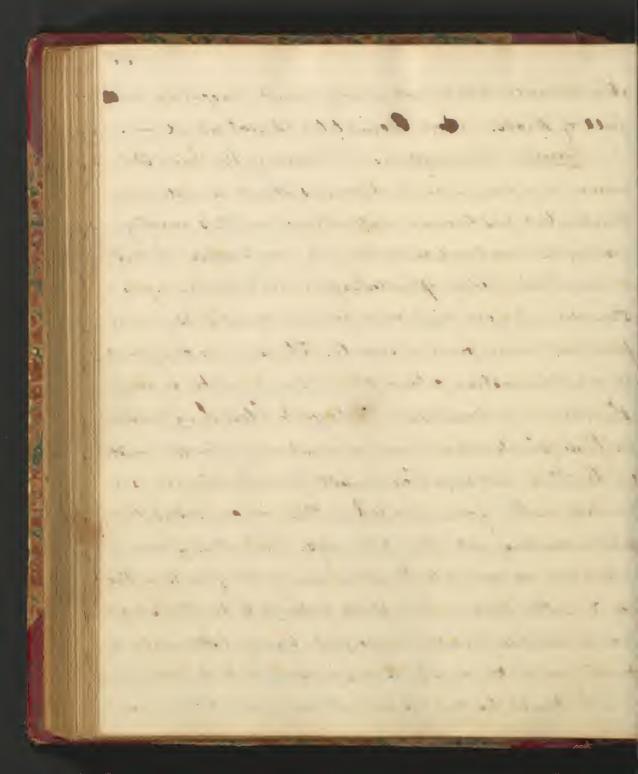
If your in Cana quantities, it may produce manse. yriping of even tenesures. -& copies to a sere because a player as a suite sere por the peril of the product they remaile in the second received it come pour is subjected pour se from interest of the late of a consection. 31 a 14 - once la ville 2 si ment t. 18 cm . - at is used in the real test, to any ocio in o de de mario con accomo de la como ing. The ide of Sternel richts - because the was a final to estimate the out the de incert in in the securities the interest aut, in theoret. and, technology in the second medical second as a the man on invited the many making brookly on account of a consider of the second

And. Toxuentosa, which is a vine ascending to the tops. of the lighest treet, grows in the westens country, espe. cially on the banks of the Mississippe. The Verb found in the Phofes, is often mingled with leaved and thirt, and also with the root of Spyclia, which is distinguished by its being larger, and wanting the orland med taste of Jers. - Solventana had a pleasant aromatic solour, and a better, arom tattes L'es pouder is grayish. It imparts its verties to boiling Water table. The so wist. de peud upon a volatile vil, and a bitter extractive matter. - Symul by boding -It is a stimulant torne, well adapted to the approaching low Stages of diseases, particularly those of a typhoid form. Dode of pouder from 10 to 30 grs. -Suf. made from 3/2 to Ift. boiling water. - Dode f31 to f3ig Just is of a greenell yellow colour, very bitter, - Subject to the obsection before mentioned. Dode for tof Dij --In Europe, several other specied are employed, which are generally vined. Aris. longa had a root from Itall inches long, promorde, somewhat lapering, sending off a no of

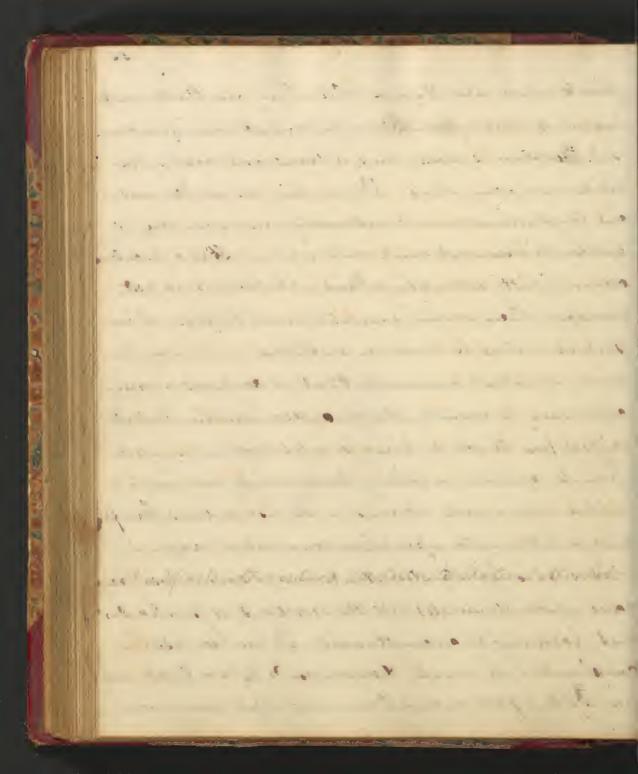
to f forthy notice. I make along the de . - to the 12 Mart by a strictly was in the land really of the grant . and the state of the state 1 the first of the second of the

row I in the dise. This plant belongs to the the Superfluctionals its dise florets are perfect, having both male & foundless and its ray florets are imperfect, having only jour

Ruot Should be duy up in autimon, and taken from



flants which are Dypars old . They are thick and branched, having whitist, cylindrical ramifications. out. Attercolour is white, and a transverse section exhilits radicating febres. Thefore being drice, the nort is out longitudinally or transversely, and when day is yellowith brown eft. - int. diele white . - that a peculia odour slightly resembling Bris. It's laste is at first, rante out Their wirm, amounted and bitter. It im parts its vertices to Water and Alcohol . - It may bo worth, of notice 'to roman that it contains a principle said to resemble starch oulled unlin, but it differs from Starets, by being proceptated unchanged from its solution in boiling Mater, and not excelling a Hue colour with God ine - It also contains bamp and a bitter extr. upon which some virtuel de peul. It is lonce goutty stems lant, and is one of tose now edies which stimulated all the secretions, or particular ones according to our cumstances. It had been used in Complaints of the auxist - Pose pouclos di the 31 . - Vecoc , mide rom of to a fit of nator - Inse. wineglassful. --



replacable rectain Dec 14th 1833. wapter. Set of the root of the wooles trifolia - is an reversee blant growing in the northern parts of Au. Tumpe and Asia, - in low, and cold sura why placed. In appearance it not cubted the straw-barry . - Has a perunial, horizonta (not, Hender, and bright yellow, douding out throad like filred . The ounder is covered with Seciled and some this iscend the polioles and flows stand. the leaves we ternale; having 3 leaferts which are sassil obovate, acute at their bade, labout at the suged, and onewater or socioped. The flower stand on scapes while are louges there the leafstalks, are single, of a whiteh colour. Belongs to The seless & Moder, Volyandina, Jolygy ina was now of to you stuled, starlike, pedicelled . - The rockes officinal. - When direct, is in to osely matted madred, if rook, leaved und stems, - da the yellow, Atroad-like appear It has a strong purely bitter taste, resembling quassias in this respect, as well is in the medical properties .-It is a suntile tour litter - used in Now Ryland in apthous ore month fore 10 to 30 grd. - ref. made and used as qualdia

2.4 and the second second * h 1 , and the second Tennings and Many Comments of the Street

He now come to dome root which are little touch and allrugent in their properties, one of which is the decen Usbumum. Part of Avoud. - It is an hertraceous, berenmai Hant, mation of Europe, and grows in woods and Thady unculturated placed. The root condutt of a cander which Linds out a number of filtres, - frostions of which are frequently found attached to the direct roots. he a recent state; the root has a prieasant muche somewhat resembling Goves, and a better astrugent taste. When dried it is moderout, talke bitterist fastring It imparts its medicular virtued to Alcohol and Water, tringing them rad. It properties probably depend upon ou essential ail, which is obtained by distillation. - It is much in Throuse a morrhage, diarrhea de on the Continent, but very little surployed in this country. Dose por 30 gisto 37. Another wood of the slads is the Sound Mater Avand - not of the Soun Ruale, - more worthy of our nolice tecanic it is is nature of this country as well as of Europe. It had a beremial, horosoutal, lapareng, jointed, scaly rout about 6 inches long fur withed with a hamber of

il on object and to the the designation

descending radicles. From one and if it, ascends one or more fleut, branching at top, and Supporting a flower. Leaves are radical, and on the stew. The radical are interruptedly humate, i.e. having alternate small, and alternate large leaflets, - with large lemmas leaflets, on long frottalks. The upper leaves are tenente, Servate, petiolate. Ideous to belass and Order o cosanda tolygymia. It grows in cour, wet boggy, meadon y -Lica root is hard, brittle, of a reddish colour. - bitter astring ut table, - inodorous. - It is seldom sufstoned, but man be used in passive homorrhage, chronic dian Hea to de Tode Fi to 31. Decoc is made by boiling 31 in a fr. of water. Lode + 31 to fair . -The now lake up the blass of Rooks called them. ulants, and first we shall notice Contraysora. he not of the Losslevia boulragerea, id not a realize of this country. It has a peremial, spendlershaped root, with a munt er of descending fibres, sauling up several leaves wion sug milical frotstalks, loved, frontell, serrate. -In ocured are also radical supporting the flowers whom a

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heculius, en p. le ber receptacles - This plant frows in Mereto, M. Letters, and some parts of J. America. los Man Unea, it is spullette pade, hand tough, nod delle brown off. - lighter withen. Adour aroundic. - tatte time litterette, fragrant tomewhat spicy. The febros have less of this ordered table them the body of the voor. Its virtues ser extracted by boiling Mater & Alcohol. - it is a stew whent love and diaphordie, but Aldon used in our country. It was formerly considered as an autidota for the bile o'- a snake, and hence received its hame now the Spanish language, unfolying this property .) Lugabar. Jugar. Root of the Ling. Officinale .sometimes called Amountain Ting. has a horrsoutal root with few fibred, Lending up an annual Hem Da scape becames a Sporke of flowers at the top. The stew is heathed, and at the end of the sheathes we find the sur, lanceolate & smooth. The flower stew is composed of theathes; but has no leaved, at the top it beround broader, and Supports Dor 3 flowers. It is a rention of the is indied tis cultivated in the M. Indies . -

Tree. Sugar is the root before being boiled or Scalded. of the second has been a second to the second Darbadoes Ginger is the best kind of E. hidia linger, having a lighter colour.

Sur marker is supplied theofly from the last, and it Could in I States. The Black or E. India, and the White or Jamaica linger. The E. India is irregularly loved branched, compressed, covered with an attendsured excelement, except where thed is removed predenting the appearance of blocks foots, hence its name. Int. it is whitesto. The famaica is defriord of its cortical portion by coraping, I of the same general shape, but more without of cylindrical, very hard, hornlike .produced a yellowill White pour der. It is best, because it is most fresh, and should be used in officinal prep. Its odour is aromatic. - tatte, spices, purepout, beting, but these dimenent he and finally disappear by age. Its withen are extracted by Ale. and tolling Mater. Its most imporland conditioned proportied are a volatite oil, and an iromalia estractivo matter, also fum and starch. the root should be rejected when it is fitrout, light of friate , it should be hard, and its excellence may be cousi verex as proportionate to its bright colour, its strong laste and finell. - It is a Stimulant deaminative?

Ve ce . . I had to complete to the complete to where was a comment of the second the course Sandard - Size in the Harmon Mine There was did in the said to · series contra a de federal es se Kind and I have may make the state of Durch one Junct should be a saturated finet.

It excites the parts to a hich it may be applied to often used as an addition to Jonies. Externace, applied, it is a ford subefacient. Dose fourder 10 to 21 grd. -An infusion is made from adding fit of boiling M. to 3/3 of the soudered or brused not, and let it stand tell cool, then sweeten it with loaf sufar, and it makes a very bleadant annk. - is an excellent artiele for expelling flatulence? During the prevalence of holera. It. recommended to his paterests to have this lea always wfrom their table, and take a wine flassful 3 or Atunes a day. - Tinet. Tim is preparacle by more cerating Bring in Ifoto of Ale. - this is principaling useful as a means of making Jur. Lin -This is propored by + Big of the Junet. to a gallon of Simple Lyrorp, but care must be taken that the Just be strong and of food quality. -Ladoaria is sometimes keft in the Shoft, having properties Tomewhat Similar to Ginger, but is little used. Augelica. - Noot of Aug. Archangelica. - The common To me Aug. is mether a nature of, or cultivated in the Ms.

to see the deserve a source of se division on the or the trace + motion

It is a nature of Emope, having a long, think becaused root, with numerous febres, Lending up a stem, sheather purple, Streated, - Leaves Hand on would, fittulous footstacks, we doubly simulter. The flowers we we kn much unbels. Delougs to the Class & Order Toulans dria, Deginas, vecels are flat, striated, 2 in aflower. the root should be iting in Underson, - id exceedingly li uble to be worse cater, Spindlesingert, from the 4 in. long. It is deldom used here. Its oldowr is strong and frafrant-table, sweetist, aromatic warm. Imparts to prope Ais to Ale, and partially to Mater. It is aromatic, louce Sumilar le Ginger. Doses 30 grs. to 31. - ... Any elica atropulpurea. - il deldom conflo yed. - similar -" Syrothmen. Polliton, Root. - Root of Authoris Lyr. The stew is tracking at the base, then vises, und on Nane. bejumati leaves, temmenates in a large compound flower. at grows in Span, and on the Chast of the Mediterranean. Then dried, the root is at out as the Retter funger, Somute, 3 sr & in long. - brown cft. - while int - firm ! rolia, having a poculear laste, which is just Saline, afterA DIV S * we will will be

wards acrial & better and found what sour, producing When chewell a flow of saliva. It pergency is owing to a peculiar frusciple like resin and fixed oil. It tometimes acts as a featafopue, and is useful in headache, and neuralfic affections of the face te. -. Calamid - Sweet Flag. - Port of the Acones Galan From the M. S. - well said to be found in Tierofoe H. Asia It is found in wet martly places, has a horisontal rost 6-8-10 or even 12 ft in length, jointed, with a new ber of februs running from each of the joints as well as radical fibres from the lower bast of the not. - The sechour boture en the joints are smooth & smelines presult whom i. The leaves spring from the root enveloping call ther, we very long and sword thaped. It flower tem is a scape riding with I formed like, the leaves, and has an it a spartix " serongs to blass and brder, He Landria Money nia. The roots are taken from the frome, walken scraped, dried, and brought to the Shotos. - Whitesh cuter .-. Hour romatio, taste warm, better, purgent & spicy. Dochin Water extracts its urtues which depend whom a Volatile

of recommended to be considered in the worker of There is not redionally a prose the way from in the time of the fates to.

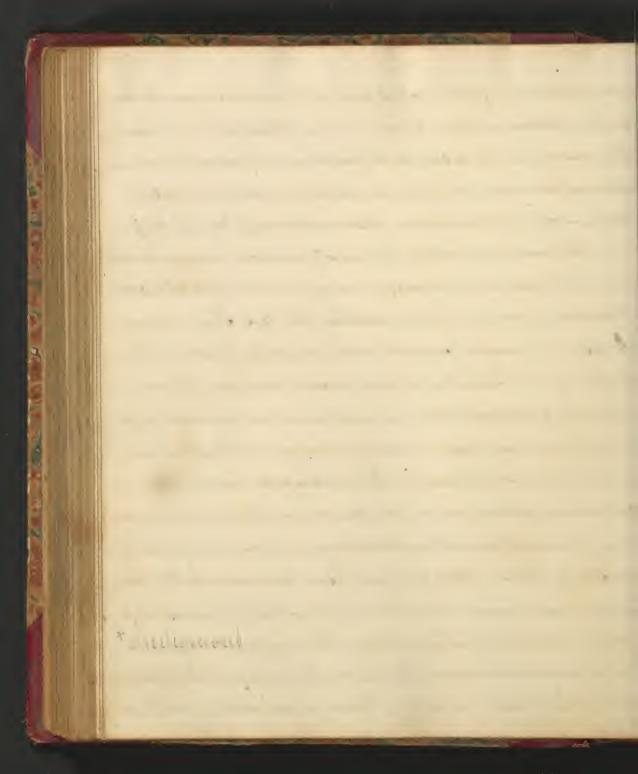
sil, and un oftraction matter. - The not is sometimes found in the thops worm rater. - It is is stimulant Caminative, excites the Stomach, and expels flatus. Dose of bowder Fi to Fi - Inf. made in the proportion of Fit to Ift. boiling Water. Dose wineglassful. -Die lecutte Secture Dec. 14. 183.3. --Maleriana. Valerian. The root of the bal. Officinalis. is a large, hertaceous, persunial plant, having a candex from which proceed a number of felos, - and N Louds up an erect slew, I or 3ft light, and has radical leaves at well as those on the stew. The radical leaves are he largest and stand on long footstalks. Those on the Men are Sessile. Leaflets are lanceolate purmate, and servets. The flowers are in terminal corypubs, which differ from unitals in having the footstalks of the flowers proceeding from different from to of the Stewn. Other sipecies of i'al. are formetimed mingled with this, as the bal diorce, but this has a diff not, and it eatily delestell - bal. I'm is more similar, and not unlike in properties, so that the adulteration is unimportant.

Al. baler. seems to be developed as the plant thies; I is it tained by distillation, at first green, aftornants yellow, . Malaianie Acid is said to rise with the vil. -Il i rece is los beeble to be so se ule t u son en In it does in Henrice our to a see to a are all to the course - a mid. I manufacture in the line of the same.

his plant is a reatine of terrope, and presents lun des. tuck character, dependent whom its place of growth that which grows in dry placed is Smaller, has narrow leans and is said to be superior in medical proporties, to the larger variety which grows in moist places, Belongs to the Class and Order Frandria, Monogynia. The roots Should be collected before or after vegetation, quickly dried, and kept in a dry place. In the shops, we often find part of the Stems attached to the roots. The oder of the dried root is stronger than that of the fresh, and it is Said to be were pleasing to Cats - Its tatte is at first sweetist. Their bitter and aromatic it yields Is virtues to Mater and Ale. - They solide in a vol. bie; Which is obtained by distillation with Water, - has the arous talle of the root, without its bitters est. It is a stimulant, Exerting a poculiar influence whom the newoud Lysten, in allaying irrapular nervous of heaviness to . - - at is Chiefly used in irreg. nowous affectrous, mattended with fever. Lose 30 to 90 grs. g bouder -

a multiple of all a comments A water ...

An infusion of the root is made from adding Is to a for of boiling trater. Doze . a wineglassful - This root Thould never to used in Decoction or Cestrack because Uts vertues defound upon a vol. oil, which would be drum off by boiling. - Dase of Juck for to friing -He now come to a few wort which are used as not being in cluded under any particular blass- of These, the first we shall mention is dris Florentina. omes. It may be proper here to romark, that all the Species of the Semis bris, have wered roots. - This root is beromial, horsental, tuberous, having a number of fetres proceeding from it which are of a whitell colour, while the root is brown. It Leads up a mulier of radio cal leaves, which are in clusters, swordshaped, narrow, newed, and shorter Atean the stew which reses from the middle of them, about a foot light, bearing at the axtranity two large white or bluis i white flowers. Telong to blass and Inter Frandria, Manogypia. The pistel is a gene de prorting 3 Stigmas which look like petals. A characteristic mark of this go us is that it has



sex petals, 3 of which are upright, and 3 reverted or turned downward. - It is a nature of Italy, and the southern parts of Europe, and derived its name from Horance). The root is collected in the Spring, deprived of its cortical portion of febras, and exprorted from Leption. It is found in irregular pieces, some times flattened . or knotty, - or branched . - is compact .whilets the remaining marks of febres, - white colour, and when broken, exhibits a compact, but not a thing fracture. The odour is strong, taste betterette tacrid. to this of constituents are starch and a volatile oil. When freth, if taken in large doses, it is cathartie, it is said also to possess diuretic properties. The chief purpose nowever for which the root is that of correcting an offensive breath by chewing. - It is also well calcu-Lated for elsue balls .- - There is a species of this your prowing in America, worthy of police, called dis Mersicolor. Blue Hag. This has a peremial, fleshy horisonlas port, Souding up a stewn 2 or 3/1. ligh on which are Swordshapen, Streated leaves. The fivers

ure o a the or purple volour, and make their appear unce in June. It grows in moist places, on the land of Iwan, - meadows to. The flower make a gud blue infusion for tests of aville and alkaled. The succent root is inoctorous, and has a nauscous, bons acred table. It I not much whell in this country, welless accade our le by the country brople as a Cathartic. Lose 16 to Dogos dies-Telix Mad. Mala Forw. Root of the Ashedium or Voly bodium Telex Mas - is horosoutal, peromeal, sands up amendly a number of fronds in a cluster. The frond is acute, pinnate, having a menter of leaflets, which are lobed, enoute, and gradually approach en of other, as they approach the lop of the frond. This plant has no obvious stamen or pietel, hence it holongs to the blags ralled Complogania. The fruit coulists of a number of brack shoth on the back of the leaflets. - It should be collected in Summer, and it has bounfaid that it is officient only in its recent state, and that it becomes in A in I or 3 days. - The root has a central red will white candex, which rend about I in horistoutally un-

Male Fem prows in Europe + tout parts of U.S.-Solve hel amended her there deposits on destroyed their or one will a south the special of think are one toget become it 4 and the second of the second of the second of An atheriae Extract is said to be efficient. -

der the ground sending up a great number of fronds, around the base of rach are found silky , soft seales, it from between these tubercles issue the fibred - The root Severally found in the shops wire the tutoredes with Their silke sources, which have been sopareted from the proper , not or fibres . - The internal portion only of the root is active. - It has but little soudible affect, It was is slightly tonis and astrong out. The anciouts employed it as a tremifuje; nex at one time it attained to considerable notice is a roundy for tape-worm used by Marlane Nouffer. Dode File Fing soming troung for der 3 days - Pocos is made from 3i to a for water. - --Anchusa Tinctoria. Alkanet. The root of An Junch. is a native of the Frecian Archipelago the South of Europe, has a long, redslith, tapering root, sanding up stems, which are procumbent, feeble and heing, terme turing in a cluster of purple fowers. The root, as found in the shops is of about the suze of the little junger, of a deep, reddedbbrown colour eft. - The int. lighcous frontion

7 * Likelon

is whilethe, but they are generally, so rotten that we to not see Phese distinctly. Men fresh it has a faint odour and betterish astringent taste, but these are. lost by drying. It is chiefly used for the colouring himciple, imparting a deep red colour, to Ale, other, and the oils. Ala cotoured with it, is turned blue by addue an alkale and darker red by an acide. It is Somewhat are astrugent root, but not used in medience-Stubea (Madder, The root of Rubia Suctoreun. - grows in Europe. - root is prerunial, consisting of long Succulent rootlets, with a number of fibres. It sends many amound steins which are procumbant, and furnished with a number of prickles. The leaves we disposed in whorls. The flowers are in clusters, yellow, on afilla y pedundes. The not, after being dupup and drive, is coastely foundered and sent to market as Madder the overtis covered with an esternal. brown a pidermis, but is redder withen. - It has a wear, poculiar odour, and a bitter, astringent laste, -It impa to these proposties, as well as it's colouring matter,

at un transfer to the transfer the transfer to was well and the thring in -M * Woley = 17 3

to Water and Alcohol . it continued dur ur en such quemo titles that an injusion of it will forment from elle. Thy herand have little confidence in its of jot. When taken internally, it imparts its red colour to the de-Cretions generally. Dose In. 3 or 4 times a day .-Curcuma . Turmeric. Root of Curcuma louga. One or two species wetter of this going ineld the Ledvany mentioned page 16%. - Turmeric has a tuter attached to the root, from which proceed the Henry, terminating in close bracks from the middle of which appear the flowers . - It is a native of the E. Indeed, and i cultibated in southern Asia. In closed root of the shoft is explinational or round. The first are the roots of the Cur. longar-are 2 or 3 in in length, takering, yellowish, exhibthing a wasen fracture, - solid and ferm, easily pulvari-Tible forming a yellow from . The round pieces, - not of bur rotunda, are about the size of a heckory mut, of have a number of viroular ruga. - There is no difference in their properties. They have a peculiar odour - warns litteredto, feet aromatic tatte. Men Chewed, it tuges

testine of the de grante, and the contraction in the whole it is not a second to a family a second of the family of the family " there we would need the things and sent the

the Saliva, 40 llow. It contains an acrid vol. bil, and a peculiar yellow coloring matter, which has an acrid, purpout tatte: It imparts these virtues slight to Water, readily to Ale. - It is used for dying yellow, but the colour is not permanent. - It is changed to e reddesh brown by an alkati, - hence paper coloured with it is a good test for an alkale. -It is a stimulant aromatic, somewhat resombling Singer in its operation, but is now not used in medicine-simply suployed for its colour. Hereticuthe L'eture & ve. 19. 1833. Having non treated of those roots from which medicines are most generally obtained, we now proceed to Speak of the medicined derived from the stead. and at present, we shall confice our remarks to Mose stems which are ligneous, first premising a few words respecting the nature or constituents of a slow. - It consists of a back and wood. The constituents of the bark are first an af mal coating called . Mo cuticles or spellermit, which a young livered is transparent, ohowing immediately bo-

and the state of t the present in the wants, the chart with many a wall of me what is they prove donated in grown the ment and and deep with large 150

heath is a greenish substance valled the collular Integenment, it consists of a pulpy matter felled with Small cells which contain a greenish lequel. North to this or what may be considered a portion of this layer are boddels or nather fibres on the usede of the ce Clular integerments, and in fact unbedded in it, which is called the wasoular luyer, and next to this, is the liber or inner bank, consisting partly of cells, and partly of vossels, and seems to be the principal portion of the barker The bark of the root has the Same constitueents as the slew, differing only from the effect of light. - The lightout fortion consists of I parts, the external called Alburnum or Jap Hood and the internal caleed Heart- Frond. The wood is arrunged in concentre circle &, each circle indivating à year's growth. The heart is not necessary for life, but Secus to support the stem, but the sapewood perfound an important function - it is in this the accordation takes place. Besides the bark and word there is always in young longs an internal portion and each the Sitte, The Object

The State of the second of the ente de une, et de prient de la marine wast of the most related to the said way "

of which had not yet been satisfactorily ascertained. With these few observations we how take up undivies nal stend, and the first of these we shall notice is the Hamatorylow. Logwood. The wood of the Ham. Camper Chiamin, which is a middle, sitted tree, growing on the Thores of the Hondinas Day in Mexico. I had a crooked, rough stewn, not very ligh, sending out a me of rough branches. It has retternate primater leaves, confrosed of Several pains of opposite, obcordate, leaflets, and the flows ers are disposed in agellary necests, of a yellow colour, reddelle at the base. Belough to Class wind brder, Documdria, Monogymia. It il very abundant on the Bay of Compeacing, and when propared for the market, the bask and saperoud are shared off The heart is heavy, febrous, firm, of a deep red colour, which becomes blackish by oxcosura. - It has a slight boouliar ordour, a sweetille asringent table. It imparts its colour to Mater and Alcohol. Among its constituents are a volatile oil upon edicho Is odour defounds, tamen, to which may be attributed to attrugency, and an avolosed substance realced has

Hematin, I the colouring principle are the two most inportant constituents. if Chronic Lysentery. -

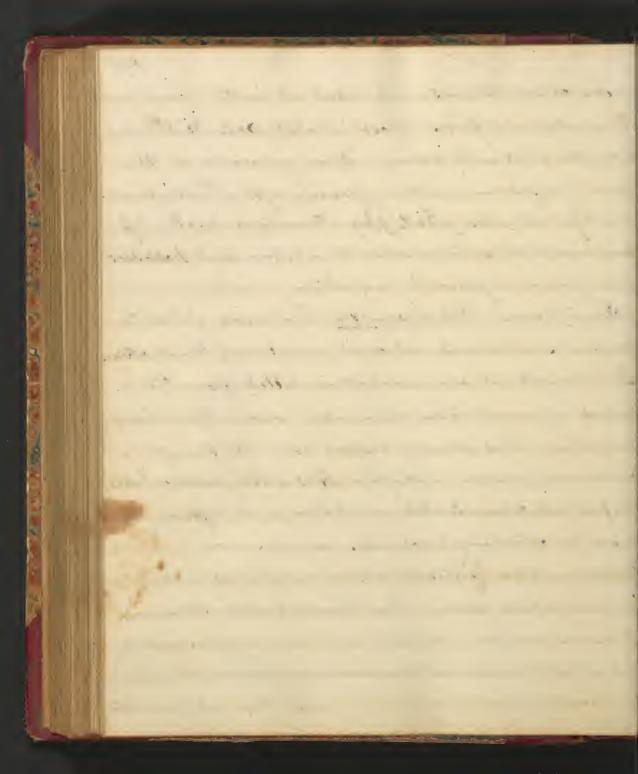
matin whom which its colouring property depends t which is soluble in boiling Water and Alcohol. As found in the shops, it is usually chapped or rasped . - It is a mild astrugent, without any unitating properties, hence it is well adapted to many found of bowel complaints - The best mothod of administering it is in Decoction; made his boiling 3i of word in 2 185. of water, down to a pint. Dose for an adult a wineplassful, for a child Tablesprouful - The extract is of a colour rather darker than the not, had a sweetish taster, and is somewhat astrugart. Dose 10 to 20 grs. -Quassia. The wood of the Quassia amara, or the Pimarulas exectsa, both of which are recognized in to Thamacopeia as producing this medicine. -The gomes Sin a who is boly gamons I has I Stument. -The genus quastice has perfect flowers and 10 Stamens. Simar excelsa your in Jamaica and the Mr. Indies. Quassia amara grows in Conjune -is a small, beautial chrub, with afternate, punate leaved, the The middle of which passes a long rad news. The flowers

and the same of th and the second s Control of the contro the second secon The same of the sa the second secon the the third the terms of the second of the and the state of t And the second of the second o , p' 5 '

are in terminal spikes- of a crimbon colour. Delougsto Mass and brder Decandria, Monogypia. The quaplia found in the shops appeals as though it were portions of the brank or of the branche of the tree, but not of the toot as tome have asserted. The lillets are cylindre eal, 3 or If It long from an inch to near a foot in diameter, covered with the bask. At first, the wood is whitethe but by exposure becomes yellowill, - it is light and porous,moderous, of an intensely bitter taste, unattended with any other. Water & Alcohol extract its virtues, and a cold infusion if evaporated giolds a brown, somewhat translucent substance, which, by D. J. has been termed qualin, This is incompatible with no substances used in medicine except Argente Net. and Acet Thunter. In the Shops, it is usually found ralped -It is an exceedingly bitter and excellent tome, having to other properties combined with it, and is much used in strong theneng the Lystern in Couracles ones, by its fornoting the appetite, as well as by its tome formers. It was introduced into practice from I America, from a

B. Wall War Comment of the Comment o - 2 - 1881 Amor & Later - in the same of history and the contract of the contra the second of th the second second second - 1. K & lain ber a, har, de ince ...

negro called Quassi, who used it in the treatment of malignant fever. - Dose in subst. Fi to Fr, but it is not often used in this way . - More generally in the I'm of infusion, made by pouring aft. of boiling water on Fig wood. Hose of Bit fing. The extract has the apbearance of other tome extracts, is bitter, and possesses tomes powers superior to any other. - me. Vantalum. Red Saunders. The wood of the Sterrearpus Santalunes, which is a nature of Am Moostan It is brought into our markets in billets from the 6. ondies, of a dark colour externally, - rod within, hard and solies. It is usually rasped or in the form of a coarse red founder in shops - Has little small or taste. Imparts its colour to Ale and Wher, and is principally used for colouring tenctures. Dulcamara. Dettersweet. consisting of both the ligne out and corticue partion. It is the stulk of the Solamus Pulsam, or Movely Nightshade, a water of the country woll as of Tourspe. It is a clintry street, with a perouwire work, and we may have montion that it grows a's



bunderales on the trank of the dital down towards Glowcester Point Formy . - The Stown id procundrait and liqueous, pithy and sound . - across are alternate petiolas orate; bounted, file of truell wand, - towards the tot they are hablute, and dometimes cordate. The Howers are purple, in l'arutifue alustiers, dending an footstalks, which arise from the stews, opposite the footstalks of the Bonnes. Delays' to Class and bider Sentandria, Monoquince: He have here to remark that the author of this gound are I in monter, very long, and have two Small orificed at their dumm its. They form a kind of cone, Ater which, the pestil projects. buly theale, 5 to thed and sersistent. Corabla has I felats which are reflexed. Their colour is burfoliste, and this the middle of each must a line of a deeper colour. Fruit is a barry, first green their rack which rolucions after the leaves have fallen. - It proved in damps andmost Maced, as well as in day, - the latter had been said to the best, but this is doubted. - at flowers from June in August, and for medicinal use, should be collected

in a way to the the It has a sedutive influence on the Generative Organs. I agence.

in the fall, and the extreme trongs selected. When any, as in the shops, it is of a prile ash colour, wrinkled, consisting of a cost, and ligheous portion. Men recent and brised, it has a nauseous smell, but day is involvend. . aste is first bitter then Sweet. Boile water extracts its barties which reside in an alkalus principle called Solaria, existing in the form of a malate. - this is olightly nearcotic, and increase the secretions of the kidneys and their. In large doses, produced now sea, vormiting de - Chiefly used in cutaneous diseases, a . I is forerally given in the for a of 2 2000. made by boising 31 in 12 for down to a loc & out f3i to f3ij. - The eft. is prepared as un mal by evaporation. Dose 5 to 1' grs .- Dose frow. 30 grs to 3i. Eighteuth Lealure Dec. 21. 18.33. he this Eccture we thate proceed to consider Thater larks which act upon the local functions, the bowelset. and first the Jugland, Dullement, or Mite Malut. The juner bark of the jug. cinerca a tree which is a ative of the U. S. a hundant in the upper part of versay

a old and and L. . The has been with the three a same.

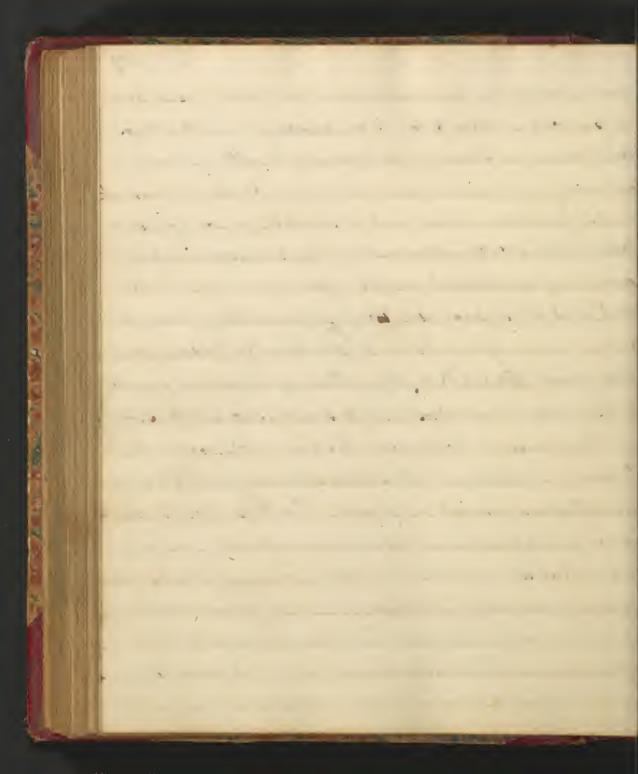
about schooley's Mountain. at grown to a considerable, height, with numbroud branches, on which the leaves are bunate, composed of for & paint of opposele, ottong: Somate; seddice leaflets. The male and female flowers are distinct wiron the same tree, hence it belonged to the Monocia. - The mule flowers are in owneuts, which consists of a receptaclo, at the sides of which are scaled, euch scale having on it surface much flowers. They are upported on footstacked vising from the stem, hear its selvently . - The jeinal fis on are at the very extremit of the stew, and have I pistils without a stander. This tree belough to the order Jolyandria - the fruit is a drupe, i.e. a mut surremded by a substance which seither fleshy or hard, as for out. The common walnut .his fruit or drupe is ovate, and has a projecting fromt it one and, which is ruther blunt. - Bark is if a light the colour. - The fruit is brought into market in the breen state for puckles! The tree abounds in a Succharive juice, - its wood is very durable. - in the arts, the task is used for diseins, but is inferior to the common

Ext. Jug. is oof, lenacious, of a dark colour, - with an astrugent, bitter, somewhat sweetish tatte, It is an active bathartic for evacuating the bowels without producing instation, being analogous to Phubast; it is tome tastrugent as well as bathartic. a decine . 43 It is an excellent Cathartic in Jamodice (Chapman)

walnut. Men applied to the skin, it acts as a subspacient. The inner bush of the root should be collected in May or Junes: When first lakew up and uncovered, it is white, but becomed black by age and exposure. It is of a febrous texture, has a feeble odour, - a peculiar bitter, somewhat acrist taste. It imports its virtues to Water boiling. -It is a mila bathastic, acting Similarly to shubort, s. may be used for similar purposed, - as in dy senting, andliveness, and other bowel affections. The usual form of administering it is the extract, which is prepared by boiling a devoction of the uner back of the root to drypas here prepared brokerly, but often the bark of the d' we t even the traps themselved are used, so that we find it hequently inferior - The heat is also often improperly ab-Hie , making another source of uncertainty as to its 24 ceilence, hence it is Leldon used. - Date as a la fatire I from I to 10 god. - as a Turgative from 20to 30 grd. abbute The Bark. The bark of the Seoffraya Intr. mid which is sy nowy mous with Andira Inemis, It from " the M. Indies in Tamaica, and its. America. Not to-

In laye doses, it is afet to produce cerebral instation de Level Water is injurious, - but warm water twann Sen anade act favorably. - It should be administered in Finale doses, gradually increased. Decoction is made from infuling Fi in Dig boiling M. till it attains the colour of Mad. Mr. . Dose a www.eglassfut. -

ing a native of our country, and but lell usul here, a particular description is unecessary. - In the Shofos. it is found in pieces of considerable length, ash colour externally, yellowith brown internal, thick, febrous, with a disagreeable odour, and a sweeteth, uncil agenous taste !- It is cathartic, and in large doses sinche, producing unfoleasant affects upon the bring. In the M. piches, it is used as a situmfuge in the form of devotion made from 3i in light of writer boiled down to a put. Dose for to frij - Dose of the powder from di to 3fs, and of the ext. 3 grs, but it is not used in M. S. -Mexercum Mexercow. The bark of the root of the Daphue Mexeroun. - It is also obtained, from other spened of Daphus frowing in Europe. The Dap. Met. is a Short, everal feet high, having the slew covered with a soldielle ark. - Llowest are on the and of the transiet, of a puck colour, plearing very early in the Spring, and are followed by leaves which are sessile, lanceolate, and also attached to this ourse The brounded. The flowers have no caly , but pink, lowbular, edeft corollar, and are arranged in clusters of 2 or 2 in the



form of a spike. Belongs to the blass and Arder, Actandina (Monogypia. : Suit is a small, round yellow arufec. " The other caced affording the bark, not being meden of our country, we shall not stop to, whice there - This is a hat of I Position and the host, of Europe, and sometimes is for at in our own fartend. It coined into our market, folded up in small massed, or milled into trills, - it is in streps which appear as if they were stropped from the bottom to the top of the stem, are very felrous and lough, with a reddish brown outiele, beneath which is a freen Pellular Intog. - and bancath this is the Liber or Junes wer. which is the lough or fibrous part. The inner surface is this ming. - When fresh it has a nauseout odour, but when dry, I modoroud . - It taste is at first sweetiste, but afterward wied and corrolive. Poiling Water extracts its in dues, hich reside in a principle caland Paplinin, this is conselizable, soluble in Mr. Ale. and Ether, it involorous, with a acrid permanent laste. - The recent bark applied the skin, infamel and even blitters. - the dreed, may stably exercised amilar properties of moistened with

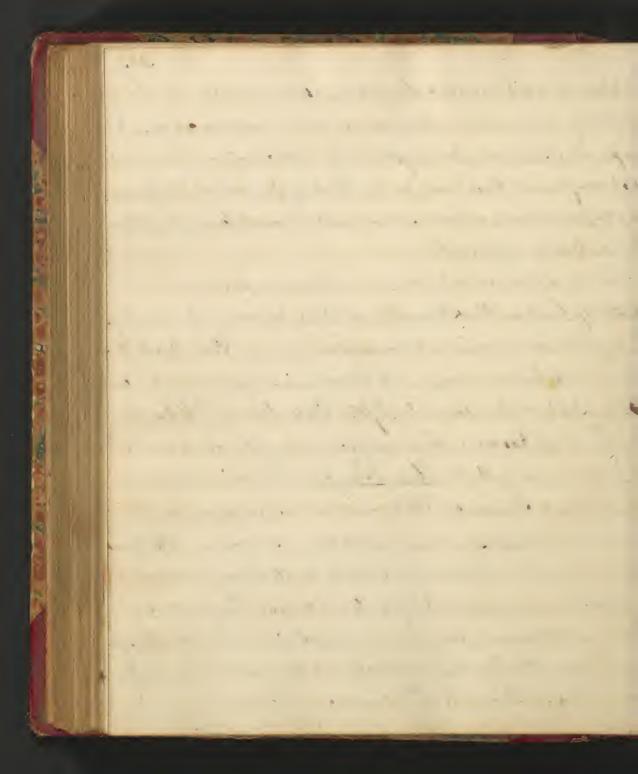
At exerter the general circulation of also has a lendow cy to the Skin. Meful in Chronic Pheumatism de. a out and a solve of the or

renegar. - Jaken internally, it is a stimulant, deaple oretie, and directie. In large dakes is nauseating, and in or- ordaded an acrid poison. It had once a high reputation in the cure of Lecondary stages of the vonerous disease, - Serofula. It is sometimed chewer, or sore throat it is seldom used. L'ase in dubstance 10 fst. - Decotton is made from boiling Dij in 3 pts water down to apts, dose teacufified. - The extract has been as for keepup usues open, but it not at present. danthoxy Hum. Trickly Ash. The bark of the Yauthox. fragulum which is a native of to U.S. - growing from 56 I ft. ligh, with a most truck, but having its extreme branches co ered with strong, sharp prickles. Leaves are bunale, with Lor & pairs of leaflets, The flowers are male all precish, spros " out in unbeld, forming an even surlace: Beloups to Class and Order Diacia, Sentandria. It is found in woods, and in moist, shady places. The ask of the shops, is more or less quilled, usually depreved Its epidemus, whiteh internally, ath colour externally is easily broken prosenting a stardy fracture. It is very

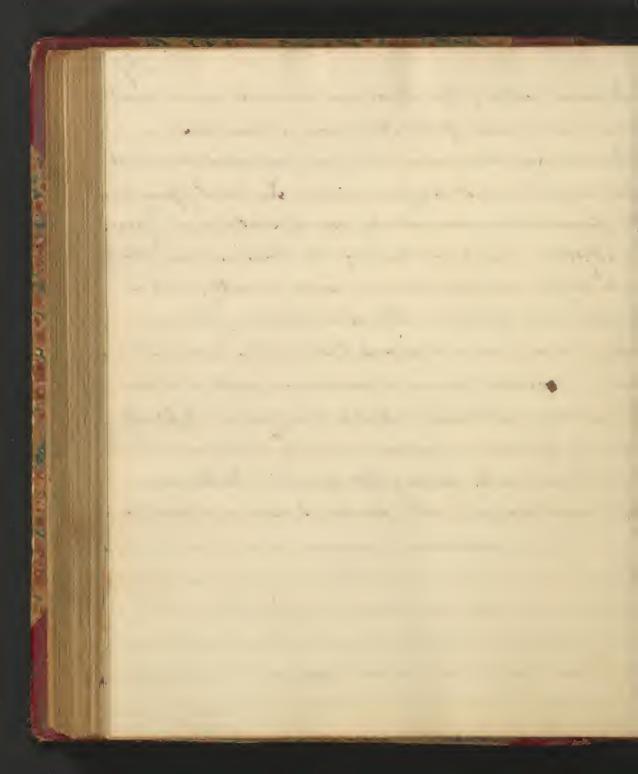
Table 19 51 mu to many to - ity. ... dente the contract of the cont 5 Y TOURS TO THE TO .

light, almost modorout, - laste first directithe and Highly aromatic, afterwards biller and acrid. A imparts its cared principle to Mr. & Alcohol . - We must not confound this bask with that of the Aralia Spenosa, or Augelica Free, which is sometimed tenned forickly alle, the entirely different. This is a Stimulant, when swallowed, producing a Take of heat in the Stomach, with a tendency to Irveature. I is used in Chronic , theunation of fruit. Dode 10 gston 3/5. three or 4 lines a day. A decoction is made by boiling Fi in 3 fots water down to 2 pts. Dade, fort. in It hours .the next back we shall notice may be classed as a demuleart. - it is Elm Bark. The inner bark of the Allund Julva or Thebra; which is indigenous. The bask of the depleny elm or red elm is brown, - its leaves have a peculiar character, - servate, ovate oblong, exhibiting Liculiar arrangement of lateral bound. The fruit is a part, membranous, one seeded capsule. The flowers ap mar before the leaved, are Lessile, at the otherwity of the

roung thoots. Delougs to Sentandrea, Difymia.



It grows north of the barolinas, and is found most abundantly west of the Allegham, Mountains . the common American climbad properties somewhat Similar, but are not to efficacions. - in the Slipping du the flowers are durmended by downey, scales, and appear in April . - The inner bash of the Shoped is very febrous and tough, raddish internation and smooth, - ext, is tougher and lighter .- It has a peculiar, ple 182 1 odour, and a mucelafenous tatte. It is excellent demulo, , padily forming a muchage with Water. It is very nestretions, capable of Supporting life. It is churly given in infusion in catarrh, dear hea to:-The informade by pouring Ifit of briling Water whow Bi of bask. - Sometimes the powder is used as a poullice. Musteret e estiller Con the contract of the contra are the Vicinia. It was always a second e i i orne e le ce de decen.



1 h of a wise of the and the state of the me collect to 4 I the harmon of the second the second to the second the make a meant to a form to the same than we the first the first the second of the same to I have execut part of the for the former to make you to with the the world in more and and a low or a secretary the Contract of the contract of James - Pareta a Butto, at which allowed were the transfer that the to the the les - much of in a contract of . I was religious against the sollections on the the state of the s a reason among a definite to a very frequent to come I have a good of to drawy the second of th 10 - Tay- But To Fally contract to mis regard and The Same of the state of the Party Married & Wester

My the Street on the form of the second at it was the second and the second and the second - The - The - There were well to elect in the state of the - te sold o most best - the me - f - " notice of the last is clean o street . With man of the state o if I had more to the think mandened - Beauty young Tion Bore or love it his hast of he than the the The fall distance of warrier that he was I'm house - it is but little want - the law hash Pain profession in the country butter or the the has no trained into L'and a marine a suite of the all form the West Contract me contend - it willing and an emil is that when brien is that -Alexander of the contract of t indicate and in the whole of the other way

Montatto Eccture San / 4 1834 Having treated in our last lecture of the pale tyellow lask, it yet remains for us to consider the Curchouse Mubra, - by the Spaniards called Calcarilla roxa. the precise tource whence this is obtained is unknown, probably it is now the trunk and large branches of the same tree which yields the superior Calibaya Bark, because this is always found in large pieces while The C. is in small breces, as if taken from the exbranisties of the branches. It has been asserted that this was derived from the Cin. Oblougefolia which from in A. Granada and Vanta Je De Bosota, but this is not the fact, because if so, we should receive our Red Bark from Carthagena, and it is well known that we good Red Bark comes from that source. It could to us in sieces partially quilled or flat, from i an inch to I in in diameter, having udually its epitenus reddills or mixed with gray, -rough, thick, with reneverse and longitudinal fittered wrinkles, and ometimes covered with warts. - hest to the exidences,

The may remark, that the only true method of distinguishing the quality of Bark, must be the Jaste.

If it be decidedly bitter, it is artise, I then, that who has the least nauseating tatte combined with its bit terness, is the best. —

I characteristic of the Yellow Carthagena Bark is its light, loose forgy textine; it has also a less britter, but exceedingly more nauseous table then the Pala or Revocately of Cinchona.

is a substance more reduced in the nature, which is bitter, containing the medical properties of the bask in a less degree than the internal, which is rough, febrous, of a red, or orange yellow wolour, - The powder is of a redded's colour, fading by exposure to light .- Its taste is bitter and astrugent. - It will be recollected that the pale bask had a bitter taste, and the yellow an astrugant, - while this, - the rad, - combined both those properties, and is the most efficacious variety. -Desides These officinal varieties, there are other Carthagena barks, the most common of which is the yellow Car. Bark, - the product, of the Cir. Cordifolia, which comes in pieces I to Blines thick, covered with a white epidemis. - It is yellow, of a loose texture, bit ter and mandeous laste: - Other varieties also are The brown and the red Car. bark, but of these, little is known. There is also another called the St. Martha or Maracaito Bark, which comes in Small, erregular fragments, Highly curved, generally without apiderhis and appears as if ellipped of from the trunk:

The ohemical analysis of auchona has been posture. Deschamp, - an apothe cary of Lyons, first found in it a valt of Line, - which was expressed by banquelin I the raid separated I named Vine Acid . -Di-Duncan of Ed took the first step lowards the des covery of the active principle, I obtained a substant which he named Cinchonine; D' Somes of Liston separated this from Cinchona, but it remained for Telleties & Caventow to ascertain the precise natino this principle, that it possessed alkaline properties bosides this, they also found another formefale, while they named Quina; - I both appeared to exist in combruations as Murates. -Recently it has been rendered probable that both Q. ma & Conchoura still in it, combined with the red and matter, forming an insoluble compound.

It is sometimes in thost quills, and if any epider. mis remains, it is of a whitethe colour . - All these Car. Bakks contain quina and Conchonea, but in a less degree than the pale or yellow . -Desides these already mentioned, there are other barks, which are derived from treet formerly cow sidered as belonging to this ferres, but which are now more properly referred to other genera. These however are not worthy our present notice! The shall next consider the chemical composition of Conchona: From the analysis of Felletier and Cardio tow it has been found that it contains Cinchown, Quine fally matter, a sed colouring matter, a yellow col must ter, tamies, gum, Starch, ligner, Kinale of line, kinale: of circhoina and of quina to Cinchoina is more abundant in the pale, and Quina in the yellow The cinchonic red or colouring matter is, insolute in Water and Ether, sol in Alcohol, - and is Said to have to effect on the system. - it is precepetated by Jartar

The constituents of Cinchonia are Carbon Hydrogen, by.
gent Netrogen: - its equiv. - or combining number 30%. -

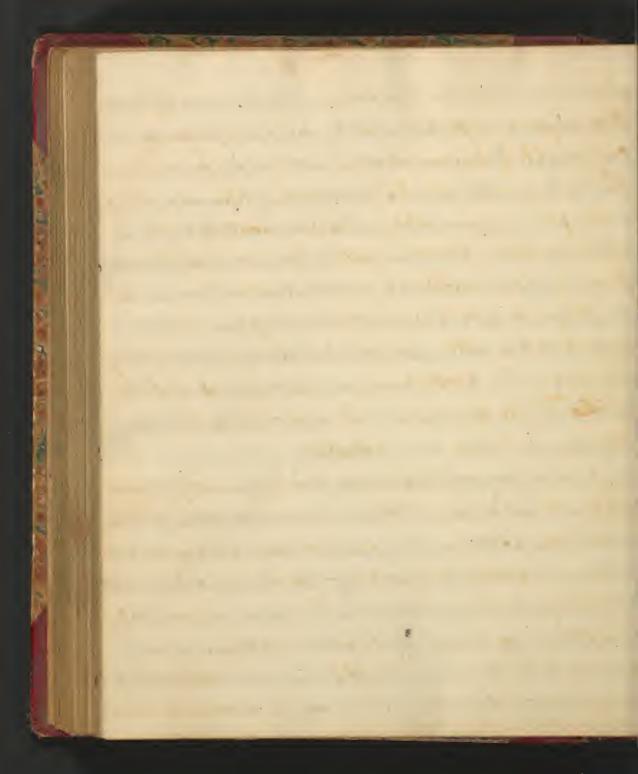
Emetic, and when acted on by an Alkali, is conbested into a dubstance which found an insoluble Compound with gelation. The yellow colouring matter differs in bong soluble in Ale. Water and Ether, and not procepitated by Jast. Emetro, - but like the rod by Subacetate & Lead. James is astrugent, sol in Water and ale die . Vis procepitated by gelation and the Salts of wow -Conchoura when pure is a white, crystalline Substance tol in boiling water, not in Cold M. - Poluble in boiling Ale from which however a portion is deposited in The crystalline state on wooling - is slightly sol in ther and in the fixed and volatile oils. It has a bitter table not at first perceptible, - neutralized acids, forming with them thethe Salts of which the dulphate nitrate; muriate, phosphate and acetate are soluble w Water, whole the neutral tartrate, oxulate and Tallale and insol in cold M. but sol in hot water or Aleohol. - The suplest process for otraning luchon I to macerate the powdered sals bark in deluted

* Saturation of the alk with the acid is known by the valt becoming voluble, when any more, is added .

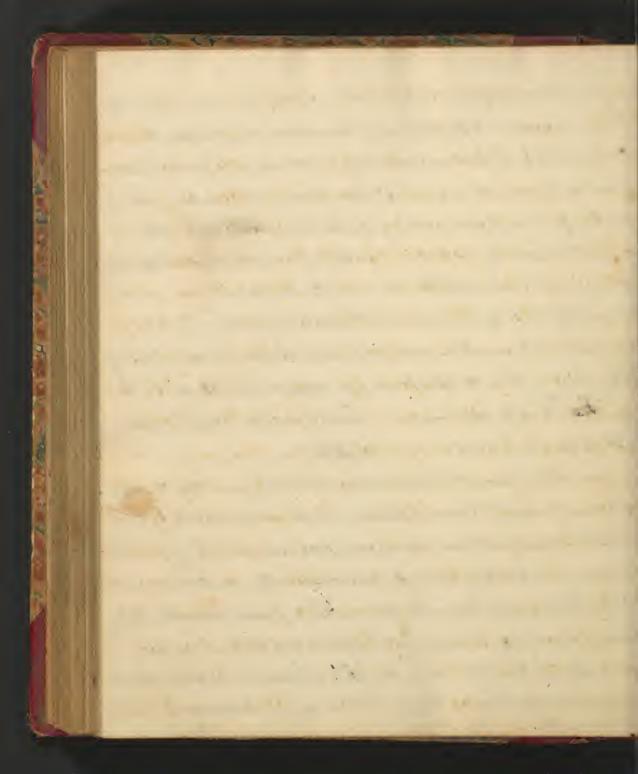
Dutyhuric itaid, then filter und we have a Sulphate of Cin. insolution, to this add Line wand we procepital. Cinchouser, Sulphate of Line of the remaining Line. Sour off the lequid, and treat the procep, with bodying Ale. which wile dissolve the Cur: and perhaps some unsureties. This must be feltered while hot, and on Cooling the Conchoma will be deposited. - This may not be quite white, - to purity it, refreat the proceeds, acting upon it with Charcoal to decolorise it. Julp. Cinchonia has been used in medicine. It is obtamed by dissolving Civ. in hot water, and fradually dropping in deluted Sul. Acid, - bril it with Charcoal felter, evaporate and crystallise. - It is white, biller, Cry stallises in prisus, - is soluble in It parts of Cold, and less boiling Water . - By the addition of a little more Sul. Acid, we four a besulphate, which is beny totable in less them half ets weight of waster at 580. Quina is a whitesh flowculent pour der, not obrystalline I fusible a popearing like wax, and upon cooling forms a rittle mass, - is more bitter than Cinchousa, is almost in

and the same was a sure is a cel al de la la la la la la la dente de ma bewer. in retermentation, at he are so the in one service to the here we that the In in were and at a print the cold There is the west that the wind is to see a second and with a

soluble in water, but soluble in Alcohol and Ether, t with acids forms salts. - Both Civ. and Quinco cow tain opygen, hydrofen, carbon and hetrofen. -Vulphate of Luina is used very estandively in medieme and is officinal in M. V. and Dut. Phar. It is obtained from the yellow or Calibaya bark, by adding to a coarse pouder water acidulated with Sulp New. First found patte thew add the row of the Water, hear it to the briling point, let it stand till it detters, then straw it. - To the remainder, add again acidio lated Water, until the powder is exhaustell, pouring of each time. - . Mix these decretions, add line in exap. which will precipitates Sulp June, Quina of the Superatundant Line. - Collect these, dry thew and dissolve in Ale. - making our alcoholic solution, let it stand and selle, from of the clear portion, felter to remainder, and introduces it into a water baths and dittie off about 10 of Ale. - Add gradually whited Sulp. Acid, being careful not to add an excel and the Sulp. Lumia will be precipitated -



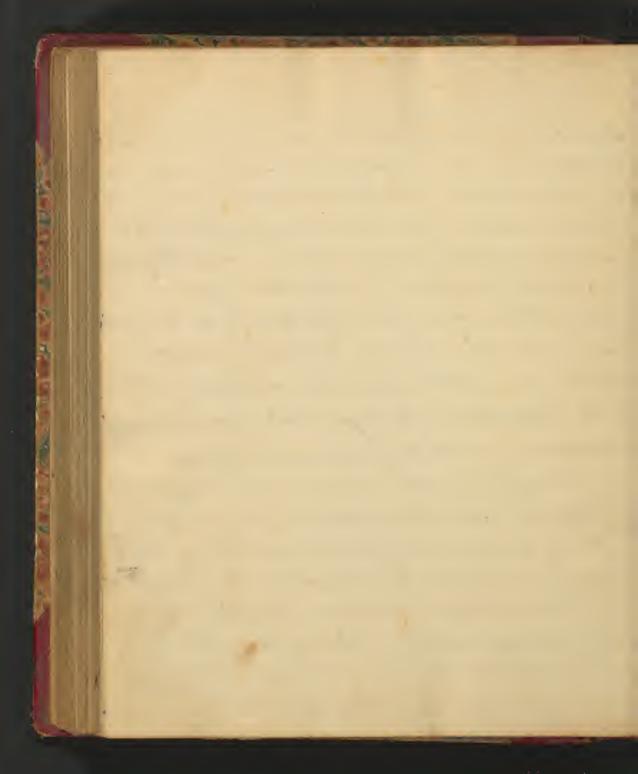
From the mother water which are poured of from this, impure Sulp. Quinco, by down improperty called Ext. of Dimaris obtained by evaporation. The bask yields about I per cent. of Quina. It is in the form of fine, silky, flexible medles, with an intendely litter, peculiar taster, losed its emstalline form by heat, melts at a high temperature, is tol. in 120 parts of Cold and 30 parts of boiling Mater, bery toleble in Ale and diluted Acid, and flightly in Ether. The proportion for dissolving it is to me. of to Gr. Quina. - It is precipitated by a Foliation of Jalls. - Desto. -In couse quence of its value, it is frequently adulted rated with Jul p. Sime of other mineral substances. To detect these, but some on a red hot wow, and if puro it well be completely dissipated. - Sometimes it is mused with White Sugar or Manna. These are discovered by the latte or by rendering it more soluble in a given quantity of Water, of which Fils should dissolve but one grain. - Starch, steam to may be detection by their of ber fol in dil . Acids



Twenty First Secture Jant 6 -1834. The inspure Sulphate of Dinna is outled Extract, of Quinia, - It has a dark appearance, off when warnes and is offertual in about double the dose of pure Salphale, - is sometimes used in intermettents. It is soluble in water especially with the aslicution of a little Julp. Acid, - also in Ale. - About 12 grs of it, are equal to 31 of the best bask, and from 12 to 18 ps are usually given as a duse between the paroxy suis .-As a mere tomo, rage to Igr may be taken 3 or 4 times a day . - When made into kills, they should not be kept long, - or if intended for this, as in a long boyage, they may be made up with Sentian - It is sometimes used in Solution - 12 drop of acid to 1gr .-It it also use ful in injection, or as a topical applecation when the skin is denuded of its covering -Runc Acid may be procured from Darke, by making an infusion of Cal. Bark, - evap. to dry well, treat with Ale: - dessolve what remained in Water, and wakorale slowly to am dessolve in Water, - evaporate.

VI LOUND BY THE CONTRACT OF LINES. how you to me your of well after the sentete desired on a de des - se la continue o to continue to the second of the second But there where, when there is a said to of the second of the second of the second and it the books experience forms (in temperal long I so tale secret. a course it is a course first the by the facility of the state of the call of the - Process of 5 = h = m & 12266 m 16 est de et per est est en en en en est de est de en o, and a survey, the restrict was well and I have not been set The second to the sections the fire the relay the mighton of the larger of the origin Red production of the and in the Loteon - 1 a will have the the same the same of the s It is best in part of the server of the second The sale week. He king at the House.

Stowing, after adding a letter byalic acid .-Feruvian Bark possesses powerful louis properties, but must not be given so as to irritates the stomache It is mall effectioned in the cure of intermettents. - Its most observed offort, is clo precident notions upon the nervous system, forequently occurre the patient while unnected tely under its influence to be hard of hearing, havea but ding sendation in his ears, - sometimes dordness, Thorning its actions upon the brains and recorned System. - Of the different varieties, the Red Batte is The beit, - leadersage me st, - ye ou next - pale next, and Carthage wa most inferior in Infudior is mude cocording to the Phar. from 31 of the basts to a pt. of builing Water, but this duch not completely or rough the bank, and it turbed - A bot ter method is to cital First found bank to 1/21. cold M. and Fi Re. Sulp Armed - Let them of and for Ily hord . -The duy the wo frequently. - The injudion should not be muche with Simon Malor, at it is sold officacioned, hor should any alkalies be added - The mome



pateties with the inquison are most of the metaiceo valto which are procipitated by tames, golature larto rised autimony, and wer ast ust Lecretion is made by boiling 3; in aft quality 10 mins in acrossed bassel detrain while hot idd a little roid to exhaust the back, and a let to brange Fore brused, (wont 3/8) just after it is boiled, while yet hot - The Recoo. of the Red Bask is rather a bright Salmon Colour, and this we' may consister as a test for red Bark. -Linck. Civ. and Jinet. Civ. Comps. are not much und The Ext. Civ is prepared by first making a Juncture then pouring it off, and make a decortion of the romainder, -. eva porate each soparalety tice they acquire the condistance of honey, then my them, and evaporate them to drypally . - This however is very lettle used at present.

